Paul T. Jobson
Loudoun, VA & Albany, NY

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Project Lead with over 20 years of experience delivering complex full lifecycle technical projects. Proven track record leading cross-functional teams in remote, hybrid, and on-site environments, with extensive experience coordinating offshore teams across Europe and Southeast Asia. Effective at managing distributed workforces across time zones while maintaining project momentum. Technical background paired with solid Agile/SCRUM practices and a focus on mentoring team members and improving processes that actually need fixing.

Professional Summary

Project Leadership	Technical Oversight	Process & Delivery
Cross-functional Team Leadership	Full-Stack Architecture Planning	Agile/SCRUM Methodologies
Stakeholder Management	Technical Requirements Analysis	Process Documentation
Mentorship & Team Development	Risk Assessment & Mitigation	Continuous Improvement
Resource Coordination	Quality Assurance Strategy	Release Planning & Delivery

Technical Summary

Languages & Frameworks: Python, Angular, Cypress, JavaScript, Node.js, TypeScript
Platforms & Infrastructure: Linux (RHE, Debian, Ubuntu), AWS EC2, Docker
Methodologies: SCRUM, Agile, Waterfall, Kanban
GitHub: https://1tn.org/pjobson

Professional Experience

T.T.P. Sterling — Sterling, Virginia / Remote

Technical Lead / Solutions Architect (September 2024 - Present)

- Led development team in delivering multiple business management applications including inventory tracking, job/work order management, and kiosk operations dashboards.
- Directed architecture and delivery of responsive Angular frontends (v17-21) with Material Design and reactive state management.
- Defined RESTful API standards using Next.js App Router and Express.js with MongoDB backends.
- Established authentication and security patterns including JWT, role-based access control, and comprehensive audit logging.
- Guided implementation of work order workflows with status tracking, appointment scheduling, and customer lifecycle management.
- Oversaw development of invoicing systems with tax calculations, partial payments, and PDF generation.
- Coordinated integration of Mapbox GL for location mapping and ngx-charts for data visualization.
- Specified image storage architecture using GridFS with Sharp for processing and thumbnail generation.
- Managed delivery of reporting modules with filterable data views and CSV/PDF exports.
- Architected 40+ API endpoints with ACL2 permissions, Argon2 hashing, and security hardening (Helmet, NoSQL injection protection).
- Conducted code reviews, mentored junior developers, and maintained documentation standards.

Take One Production - Contract — Mid Atlantic Region / On Location

Camera Operator / Production Crew (January 2008 - Present)

- Camera Operation: Operate professional Sony cameras, framing and composing shots per director's vision while managing exposure, focus, white balance, and color profiles.
- Production & Staging: Set up and configure production environments including staging, lighting, sets, cable management, and signal flow for recording and live broadcast.

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- Live Streaming & Quality Control: Operate streaming applications and encoding software, monitoring audio/video quality throughout broadcasts to ensure consistent output.
- Equipment & Logistics: Maintain camera and production equipment inventory, perform troubleshooting and pre-production checks, and manage on-location load-in/load-out logistics.

DGS/ST Engineering - Contract — DC Metro Area / Remote

Software & Test Engineer **(March 2021 - August 2022)**

- Directed development initiatives within the Radio Frequency (RF) spectrum space spanning FRS, LMR, 4G, 5G, DVB-S/DVB-S2/DVB-S2X, and short wave technologies.
- Spearheaded the strategic migration from Protractor to Cypress for a large-scale web application, delivering a 40% reduction in test execution time and significantly improved test stability.
- Conducted comprehensive analysis and documentation of the existing Protractor test suite, identifying technical debt, potential risks, and opportunities for optimization during the migration initiative.
- Developed and executed a detailed migration roadmap including timeline, milestones, resource allocation, and risk mitigation strategies-ensuring minimal disruption to ongoing development cycles.
- Oversaw validation testing of the migrated test suite, establishing quality gates to confirm all test cases executed successfully with accurate, reproducible results.
- Mentored and provided technical guidance to an internship team on Cypress framework adoption, enabling them to independently create and maintain automated test suites.
- Authored comprehensive process documentation for: CI/CD integration of Cypress, test script migration procedures, Cypress execution via WSL2 (https://1tn.org/qxgwk), development best practices SOPs, and release notes deployment requirements.
- Served as Scrum Master for departmental interns, overseeing training programs, pair programming initiatives, time management, Jira workflow management, backlog analysis, issue creation, and acting as liaison between interns and senior management.
- Restructured daily scrum meetings, reducing duration from 1-2 hours to 15 minutes-achieving approximately $250K in annual savings by eliminating unproductive engineering time through implementation of an ELMO initiative to streamline discussions.
- Initiated and validated a cost optimization experiment utilizing large AWS EC2 Linux instances in multi-user configurations versus single medium EC2 instances per engineer, presenting findings and recommendations to leadership.
- Managed delivery of an Angular 9/10 RF spectrum analysis platform featuring Material Design and D3 visualizations, providing spectrum analysis, LMR demodulation, alerting, and geographic mapping via Mapbox API.
- Collaborated with UX/UI designers to ensure delivery of responsive, accessible user interfaces aligned with user experience standards and accessibility compliance requirements.

Patrocinium Systems - Contract — Herndon, VA / Hybrid

Full Stack Engineer (August 2020 - November 2020)

- Deployed, maintained, and optimized applications on AWS platform (EC2, S3, Lambda) and Kubernetes deployment tools.
- Developed simple user experiences for interactions in crisis situations.
- Utilized microservice architecture and design and working with message bus architecture using Kafka.

Gravy Analytics / Venntel — Sterling, VA / Hybrid

Angular Web Application Developer (March 2018 - September 2020)

- Full lifecycle development of mapping portal software using AngularJS and Google Maps followed by Angular 5/6/7 and MapBox.
- Collaborate with Product Managers to gather requirements and create user stories for their government side clients.
- Defined and developed useful features for customers such as: MGRS to Lat/Long conversion, batch inputs, map measurement tools, IP address lookup, weight based sorting, etc.
- General security audit testing between Angular application and middleware tier resulting in creation and closure of various serious permissions issues.
- Assisted in development of middleware tier utilizing MongoDB, Express, and Node.js, interfacing with a Java AP deployed into EC2 linux instances.

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- Work directly with Scrum Master in creating best practices for CI/CD: development, deployment, gitlab management, and code review practices.

Take Two Productions — DC Metro Area / Remote

Software Engineer (September 2016 - November 2017)

- Consulted for a small government contractor and telecommunications companies in Reston. Created RESTful TypeScript API interfaces for SIP telephone trunking to provide VoIP services.
- Condé Nast / The New Yorker - Full stack development in React and Node.js for redevelopment of The New Yorker. Development of various components and pages for The New Yorker post re-launch. Development of tools for legacy system integration.

Folio Investing — McLean, VA / Hybrid

Senior Programmer (December 2014 – August 2016)

- Created and migrated applications from JSTL pages on Java/Spring to a SPA using AngularJS and a Java API. Institutional Trade Center: Development of institutional (B2B) mutual fund trade center. Items for Attention: Document center for customers to review items and alerts pertaining to their account. Private Placements: Developed a trading center for investment opportunities for small businesses. Development of Node.JS modules in MEAN stack environment utilizing TypeScript.

Time Warner Cable — Herndon, VA / On Site

Senior Engineer - Software & Operations (April 2008 – February 2014)

- Development of Time Warner Cable's search properties: RoadRunner Search, DNS Redirect, and RoadRunner Toolbar. Initially utilizing Perl and PHP, XML/XSTL, on Apache/Solaris, later completely redeveloping both applications to Single Page Applications (SPA) utilizing jQuery and jQote2 templating on Centos Linux.
- Search log analysis with Splunk using Node.js with MongoDB as a caching tier for decentralizing individual search queries to generalized regions based for customer privacy purposes.
- Development of the RoadRunner Video site utilizing JavaScript and a third party XML API.

Volunteering

MetroArea Health

- General web technologist support for a women's clinic including: web site CMS setup, DNS hosting and setup, web hosting, and any other general technical issues.

The Cryanaics Foundation

Board of Directors (August 2022 - January 2025)

- Strategic Planning & Governance: Developed and implemented strategic plans in collaboration with the Board of Directors, including transitioning to a volunteer-based BOD membership model while ensuring compliance with nonprofit regulations and best practices.
- IT Leadership & Infrastructure: Provided end-to-end technical support including website deployment, G-Suite integrations, CI/CD documentation, hardware setup, and vendor coordination for a micro 501(c)(3) organization.
- Stakeholder & Team Leadership: Built relationships with donors, volunteers, and community partners while leading cross-functional teams to deliver programs and foster a culture of continuous improvement.

FirePony Creative Society

Department of Public Works

- Site Infrastructure & Build: Led pre-event setup including city layout, signage installation, communal structures, power distribution, and facility placement for multi-day participatory arts events.
- Operations & Logistics: Performed on-site infrastructure maintenance, responded to facility issues, and coordinated equipment and material resources across volunteer crews.
- Strike & Land Restoration: Managed post-event breakdown and conducted Leave No Trace restoration, ensuring complete site remediation to pre-event condition.

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Open Source Contributions Summary

- **Hardware / Firmware / OpenWRT hacking**
  - dell-wyse-3040-openwrt - OpenWRT port + notes for Dell Wyse 3040
    https://github.com/pjobson/dell-wyse-3040-openwrt
  - Aerohive HiveAP-330 - OpenWRT on Aerohive AP
    https://github.com/pjobson/aerohive_hiveap-330
- **Media / Conversion Tools (JS + Python)**
  - movie2ascii - renders movies as ASCII HTML playback
    https://github.com/pjobson/movie2ascii
  - cb2pdf - cbr/cbz ⟶ PDF converter (Node)
    https://github.com/pjobson/cb2pdf
  - audio2svg - MP3 ⟶ SVG waveform
    https://github.com/pjobson/audio2svg
  - node-movielens - Node API for MovieLens
    https://github.com/pjobson/node-movielens
  - reRemarkable - Linux Markdown editor
    https://github.com/pjobson/reRemarkable
  - bulk-coordinate-converter - geo coordinate conversion
    https://github.com/pjobson/bulk-coordinate-converter
  - Smaller: all-temperatures, node-mkv-forced-stereo, node-upside-down-ternet, whats_playing_on_plex
- **Gists Summary & Writing Samples**
  - JavaScript Programmer's Reference - ISBN: 0072192968
    https://lccn.loc.gov/2001277997
  - **Linux sysadmin & desktop** (largest bucket) - QGIS install (25-file gist), FFmpeg/VAAPI builds, btrfs/exFAT, Cypress-on-WSL2, Pi-hole, Syncthing, adblock webapps, boot partition cleanup, CPU limiting.
  - **Hardware flashing / radios** - Baofeng GT-3TP/GT-5R flash notes (13 files), CHIRP updater, u-blox GPS, NFC readers (ACR122U), Datto appliance teardowns (S3X1/S3X2/Alto - multi-file).
  - **macOS / Hackintosh** - Clover boot flags, High Sierra/Mojave installs, Heimdall compile, CC cloud junk removal, permissions repair.
  - **Networking / OpenWRT** - NanoPi R1, x86_64 OpenWRT, WAN SSH, double-NAT PLEX.
  - **Gaming (Linux)** - Balatro mod scripts (Lua), PCSX2 cheats, Steam process kill/font tweaks, LibreELEC/Lakka.
  - **Dev snippets** - Node.js media converters (hevc2avc, avi2mp4, mkvExtractAll), Wordle solver userscript, bash-colors reference, git hooks, Sublime configs.