

Jason Parker

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Cybersecurity engineer with 20+ years of experience designing, building, maintaining, and securing software and systems. Experience spans low-level development in C, full-stack application development, software architecture, telephony platforms, production systems, and application security. Security research includes more than 20 published vulnerability disclosures affecting U.S. government and court platforms, with remediation and disclosure coordinated with CISA, EFF, vendors, and other stakeholders.

Employment

2024 - Present | **Cybersecurity and Compliance Engineer** | Tyler Technologies | Remote

- Lead the application security program for the billion-dollar Courts & Justice division, covering ten business units and over 50 applications.
- Establish application security standards and expectations for secure development, vulnerability management, security testing, and remediation.
- Manage the intake, validation, prioritization, tracking, and reporting of findings from security tools, internal assessments, red team testing, and customer reports.
- Advise engineering and product teams on secure design, risk assessment, vulnerability remediation, and implementation of security requirements.
- Drive application security maturity using OWASP SAMM, working with security champions and business units to identify gaps and define remediation targets.

2023 - 2024 | **Senior Software Engineer** | AVOXI | Remote

- Managed the telephony platform built on Asterisk, Kamailio, and RTPEngine.
- Developed microservices in Go, Python, and TypeScript, deployed through Kubernetes and Google Cloud.

2022 - 2023 | **Senior Software Engineer** | ClearlyIP | Remote

- Developed customer-facing PBX features in Vue.js and Ext JS with a Ruby backend, including click-to-dial and user presence.
- Served as the development team's Asterisk subject matter expert, troubleshooting issues and explaining platform behavior.
- Maintained a TypeScript browser extension for scheduling video conferences in Google and Outlook calendars.

2013 - 2021 | **Senior Software Engineer** | Sangoma | Remote

- Designed and developed applications for desktop phones with widely varying hardware and interface constraints using PHP, JavaScript, JSON, and XML.
- Led the FreePBX project following significant team turnover, coordinating development and releases with internal teams and the open-source community.
- Managed project infrastructure across Docker, virtual machines, and physical systems, while documenting systems and mentoring team members on architecture, security, and development practices.

2006 - 2013 | **Senior Software Engineer** | Digium | Huntsville, AL

- Built and maintained development and release infrastructure for the open-source Asterisk project using C, Linux shell scripting, GNU Make, and Autoconf.
- Developed new Asterisk features and resolved defects reported through public and private issue trackers.

Security Research

2023 - Present | **Independent Security Research** | govtech.cc

- Discovered and responsibly disclosed vulnerabilities affecting more than 20 U.S. government and court platforms.
- Findings included broken access control, privilege escalation, exposure of restricted records and personal information, and weaknesses in identity verification workflows.
- Coordinated remediation and disclosure with CISA, EFF, software vendors, government organizations, journalists, and other stakeholders.
- Research documented by [CISA](#) and covered by [TechCrunch](#), [Ars Technica](#), [Forbes](#), [ProPublica](#), [SecurityWeek](#), [Law360](#), [Nextgov/FCW](#), and [City & State New York](#).

Technical Skills

- **Application Security:** Web application testing, authentication and authorization testing, static and dynamic analysis, dependency and secrets scanning, threat modeling, secure design review
 - **Vulnerability Management:** Security assessments, vulnerability validation and triage, remediation guidance, CVSS, OWASP SAMM
 - **Languages:** TypeScript, JavaScript, Go, Python, PHP, Ruby, C, C#, SQL, Bash, PowerShell
 - **Frameworks:** Node.js, Vue, Ext JS, Rails, .NET, Symfony
 - **Infrastructure:** Linux, Docker, Kubernetes, VMware, Hyper-V, Pacemaker, Corosync, DRBD
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