

## SKILLS

Tools and Languages	Git, Bash, Python, TypeScript, PHP, C#, C
Front-end	Vite, Rollup, React, Redux, Tailwind, Django, WordPress, Flutter
Testing	Storybook, Playwright, Terratest, Mocha
DevOps	Docker, Ansible, Terraform, GitLab CI, GitHub Actions
AWS	CDK/CloudFormation, IAM, S3, EC2, Lambda, CloudFront
Other	Linux, HTTP APIs, GraphQL APIs

## SELECTED PROJECTS

<b>Gene/Protein Fertility Research Database</b> <i>Software Engineer at SRI International</i>	<b>January 2022 — June 2025</b>
<ul style="list-style-type: none"><li>Updated a React app to use modern routing features (React Router v7) and build systems (Vite).</li><li>Migrated the code base to TypeScript, including automatic type generation from a GraphQL schema.</li><li>Normalized a PostgreSQL database with an improved index design to enable faster and more flexible queries.</li><li>Collaborated with information security while working towards a NIST 800-53 Rev. 5 Authority to Operate (ATO). System improvements and corresponding documentation updates were driven by code reviews and automated scanning tools (CrowdStrike, Tenable).</li><li>Improved developer tooling to expedite onboarding experiences and productivity.</li></ul>	
<b>Marketing Website</b> <i>Software Engineer at SRI International</i>	<b>April 2021 — June 2025</b>
<ul style="list-style-type: none"><li>Developed WordPress plugins for core functionality / third-party integrations and themes for website branding.</li><li>Increased client performance by 138%, as measured by Google Lighthouse.</li><li>Wrote playbooks and developed tooling for code deployment and recovery operations.</li><li>Built tests for redirection, link rot, server stress testing, and more.</li><li>Used the WordPress REST API, parser combinator, and templating via Handlebars.js to migrate heterogeneous CMS content into Gutenberg blocks as part of site content restructuring.</li></ul>	
<b>Hardware Trojan Detection Research — DARPA SHEATH</b> <i>Software Engineer Intern at SRI International</i>	<b>October 2019 — March 2021</b>
<ul style="list-style-type: none"><li>Read through documentation for embedded systems and prototyped experiments with potential to support our research ideas.</li><li>Authored and edited bimonthly research reports.</li><li>Modified the Linux device driver and firmware for a BCM5719-based Ethernet card to instrument and simulate a hardware Trojan.</li></ul>	

## WORK EXPERIENCE

<b>Software Engineer</b> <i>SRI International</i>	<b>July 2020 — June 2025</b> San Luis Obispo, CA
<ul style="list-style-type: none"><li>Managed the software development life cycle (SDLC) for multiple projects simultaneously - driving discussions with stakeholders, designing systems to meet requirements, building and testing, and handling deployments and operations for project websites.</li><li>Planned and supported migrations between managed web hosting platforms and self-managed AWS deployments, using tests to ensure DNS service correctness and HTTP security.</li><li>Provided software prototyping services for cybersecurity research projects.</li></ul>	
<b>Software Engineer Intern</b> <i>SRI International</i>	<b>June 2019 — July 2020</b> San Luis Obispo, CA
<ul style="list-style-type: none"><li>Configured software tools and networking for a fleet of Ubuntu hosts which were used in a remote field exercise.</li><li>Developed and maintained a cyber monitoring tool using the proc filesystem on Linux and the Process Status API on Windows.</li><li>Built a prototype 3D-modeling application with React, integrating with REST APIs for Autodesk's cloud platform and internal machine learning research code.</li></ul>	

## EDUCATION

<b>B.S. Computer Engineering</b> <i>California Polytechnic State University</i>	<b>December 2019</b> San Luis Obispo, CA
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