Colin VanDervoort
Software Engineer

Concord, CA
colin.vandervoort.42@gmail.com

github.com/colin-vandervoort
linkedin.com/in/colin-vandervoort

SKILLS

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

SELECTED PROJECTS

Data Entry Website   January 2025 — June 2025
Software Engineer at SRI International

- Designed/deployed/managed a Django web application for scientists to enter experiment data.
- Used GitLab CI/CD and Ansible to automate code deployments and database migrations.
- Continuously improved data-entry ergonomics using feedback from end users.
- Researched implementation strategies for downstream data-centric workflows.

Gene/Protein Fertility Research Database   January 2022 — June 2025
Software Engineer at SRI International

- Updated a React app to use modern routing features (React Router v7) and build systems (Vite).
- Migrated the code base to TypeScript, including automatic type generation from a GraphQL schema.
- Normalized a PostgreSQL database with an improved index design to enable faster and more flexible queries.
- 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).
- Improved developer tooling to expedite onboarding experiences and productivity.

Marketing Website   April 2021 — June 2025
Software Engineer at SRI International

- Developed WordPress plugins for core functionality / third-party integrations and themes for website branding.
- Increased client performance by 138%, as measured by Google Lighthouse.
- Codified IAM policies and other infrastructure as code using AWS CDK.
- Wrote playbooks and developed tooling for code deployment and recovery operations.
- Built tests for redirection, link rot, server stress testing, and more.
- Used the WordPress REST API, parser combinators, and templating via Handlebars.js to migrate heterogeneous CMS content into Gutenberg blocks as part of site content restructuring.

WORK EXPERIENCE

Software Engineer   July 2020 — June 2025
SRI International   *San Luis Obispo, CA*

- 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.
- Planned and supported migrations between managed web hosting platforms and self-managed AWS deployments, using tests to ensure DNS service correctness and HTTP security.
- Provided software prototyping services for cybersecurity research projects.

Software Engineer Intern   June 2019 — July 2020
SRI International   *San Luis Obispo, CA*

- Configured software tools and networking for a fleet of Ubuntu hosts which were used in a remote field exercise.
- Developed and maintained a cyber monitoring tool using the proc file system on Linux and the Process Status API on Windows.
- Built a prototype 3D-modeling application with React, integrating with REST APIs for Autodesk's cloud platform and and internal machine learning research code.

EDUCATION

B.S. Computer Engineering   December 2019
California Polytechnic State University   *San Luis Obispo, CA*