

Samuel Levy

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SKILLS

- **Programming Languages:** Java, Python, JavaScript, SQL, Bash, C, C++, C#
- **Tools and Frameworks:** Django, Java Spring, React.js, Angular.js, Node, Git, AWS, GCP, NumPy, PyTorch

WORK EXPERIENCE

United States Digital Corps | National Institutes of Health

Washington D.C.

Software Engineer Fellow

Aug 2024 - Present

- Fellowship through the General Services Administration of the United States Government. (3.3% acceptance rate)
- Leading full-stack development of a cloud-based PubMed Central search application using *Django*, *JavaScript*, and *Vite/JS*. Deployed via *GitLab CI/CD* and *ArgoCD* to an *OpenShift* cluster on *GCP*. The new search is 10x faster.
- Modernized the UI with standard web components, achieving a 2x faster Largest Contentful Paint (LCP).
- Refactored a 20-year-old *Perl* application into a *Python* package. Runs *SQL* queries on *MSSQL* servers and manages versioned results for downstream processing. Eliminated *MSSQL* server dependency, aiding its retirement.
- Automated accessibility testing via *Pa11y*, integrating it into *GitLab CI/CD* pipelines.
- Profiled a *Python* package for performance improvements, and implemented a bulk asynchronous request method to Google Cloud Storage, yielding a ~33% performance increase.

Veeva Systems

Pleasanton, CA

Associate Software Engineer

Aug 2023 - July 2024

- Wrote a custom *React Hook* for paginated backend queries used across multiple teams boosting performance.
- Parsed logs and legacy code to fix a 2-year-old infinite loop defect. Wrote log queries revealing ~80 occurrences in the past month, impacting production server resources.
- Participated in the design & development of a survey feature in Veeva's new Vault CRM using *Java* & *React.js*.
- Debugged Docker development environment and implemented health checks, improving developer productivity.
- Enhanced metadata migration by optimizing a *parallelized Java Spring Batch* job in *Java* and *AWS S3*.

University of Washington - Paul G. Allen School of Computer Science

Seattle, WA

Computer Science Teaching Assistant (Operating Systems & Intro to Computer Science)

Sept 2022 - March 2023

- Taught sections of ~30 students, held office hours, and debugged projects written in *C/Java*.
- Provided detailed code/design feedback and answered 100+ questions on course message boards.

Microsoft

Redmond, WA

Product Management Intern

Jun 2022 - Sept 2022

- Worked on the Core OS storage/filesystem team to improve tracking of storage tasks on *Azure Stack HCI* clusters.
- Implemented/demoed a working prototype using *PowerShell* scripting and *Angular.js*.
- Led customer interviews, performed competitive analysis, and presented findings to engineering leadership.

COMMUNITY PROJECTS

Vote Real | Public Interest Tech Hackathon Winner

Feb 2023

- Developed a *React Native* app with a *Python* backend to track local government votes with real-time notifications.
- Won the "Increasing Voter Turnout" award at the Boston University Tech for Change Hackathon.

Open Data Kit | Lead Developer

Sept 2021 - June 2022

- Led a team of 5 developers to complete an *Apps Script* Google Data Studio connector, used 10K+ times weekly.
- Worked on a *QGIS Python* plugin that connected *QGIS* datasets to Open Data Kit.

EDUCATION

University of Washington

Seattle, WA

Bachelor of Science, Computer Science; Minor in Law Societies and Justice

June 2023

Cumulative GPA: 3.99/4.0; Summa Cum Laude