

Matt Wilkinson

SOFTWARE ENGINEER

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Summary

Languages TypeScript • Rust • JavaScript • Python • Java • Go • Dart • C++ • C • SQL

Technologies Docker • Github Actions • GitLab CI/CD • GraphQL • FastAPI • Express • React • Flutter • WebAssembly

Databases PostgreSQL • MongoDB • Elasticsearch • Redis **AWS Services** ECS • Kinesis • EC2 • S3 • Lambda

Education

American University

Washington DC

B.S. COMPUTER SCIENCE

08/2018 - 12/2021

- GPA: 3.88, In-Major GPA: 3.98
- Minor: Finance

Work Experience

Google

New York, NY

SOFTWARE ENGINEER

03/2022 - Present

- **01/2023 - Present: Sheets Performance & Scale**
 - Leading the migration of the Sheets JavaScript codebase to TypeScript.
 - Contributing to the migration of the Sheets calculation engine to WebAssembly.
- **03/2022 - 01/2023: Connected Sheets**
 - Contributed to the launch of the Looker for Sheets feature.
 - Designed & Implemented integrations to other Google services, including Takeout and Admin Console.

Roku

Remote

SOFTWARE ENGINEER

09/2021 - 03/2022

- Developed internal development tools for RokuOS firmware and application teams.
- Conceived, designed, and developed full-stack web & CLI applications to support RokuOS' migration from Perforce to Git.
- Combined & Refactored existing Python scripts used by single team members into a convenient CLI application used widely by the organization.
- Wrote and implemented team-wide code tooling, review standards, and CI checks to raise the quality bar of new and existing projects.
- Used GitLab CI/CD Pipelines, as well as the AWS CDK to automate the building, testing, and deployment of all services.
- Technologies Used: Next.js, React, TypeScript, Python, GraphQL, AWS Lambda, Elasticsearch, Kibana, AWS CDK, GitLab CI/CD

Roku

Remote

DEVELOPMENT TOOLS ENGINEER INTERN

05/2021 - 08/2021

- Rebuilt mission-critical CI build monitoring application using modern web technologies. Led to a 67% increase in developer satisfaction.
- Ported existing code review tool from Perforce implementation to Git & GitLab.
- Designed & Developed build metadata storage pipeline, as well as metrics dashboards to analyze the data.
- Used Terraform to create all cloud infrastructure on AWS.
- Technologies Used: Next.js, FastAPI, React, TypeScript, Python, GraphQL, AWS Lambda, Elasticsearch, and Kibana.

American University

Washington, DC

RESEARCH ASSISTANT

10/2020 - 05/2021

- Developed fullstack web application from the ground up, utilizing modern web technologies.
- Application runs hybrid study/games that enable researchers to learn about children's learning habits, as well as a Citizen Science platform enabling others to contribute to research. Worked with researchers to implement their vision.
- Designed & Implemented AWS cloud infrastructure for the application.
- Technologies Used: Next.js, TypeScript, React, AWS, GraphQL, Unity Engine

Projects

wasmCloud

Remote

PROJECT MAINTAINER & CONTRIBUTOR

11/2021 - Present

- Maintainer on the "wash" build tool in the wasmCloud project.
- Contributing to the design & development of a next generation development ecosystem with first class security, portability, productivity, and developer experience.
- Lead the implementation of the "wash build" command and "wasmcloud.toml" configuration file, taking the previously complex wasmCloud development workflow and making it intuitive and easy to use for all developers.