

Caden Garrett

Based in Boston, Massachusetts. Searching for hybrid and remote positions.

☎ (+1) 256-706-1448 | ✉ cadengarrett@gmail.com | 📱 CadenMG | 🌐 CadenMG

Skills

- Languages** Rust, Java, Python, C++, Kotlin, JavaScript, Scala, OCaml, Swift, MIPS
- Technologies** Unix, Linux, Git, Bash, Vim, Mercurial, GitHub/GitLab CI, AWS, GCP
- Interests** Low Latency Systems, High Performance Engineering, Compilers, Developer Experience

Work Experience

Google Life Sciences

Cambridge, MA

SOFTWARE ENGINEER II

Jun. 2022 - Present

- Technical lead for a cross-functional team of 4 Software Engineers developing iOS, Android, and Web features
- Acted as the point of contact for server binary releases and production issues
- Designed and implemented the FE and BE of a voice logging feature for iOS and Android applications
- Worked on a highly cross-functional team developing FE and BE features for multiple mobile and web-based applications by utilizing: gRPC, Swift, Java, Kotlin, and BDD testing

Wood Mackenzie

Boston, MA

SOFTWARE ENGINEER II

May 2022 - Jun. 2022

- Designed and implemented a Data Pipeline to restructure thousands of 1B+ row SingleStore datasets
- Presented to the tech department on SingleStore's distributed architecture and how to optimize their schemas for performance
- Designed and implemented a new microservice for Hydrogen data collection using GraphQL with a Neo4j backend

SOFTWARE ENGINEER I

Jun. 2021 - May 2022

- Optimized the React build process used daily by every developer, reducing execution time by over 55%
- Supported an Oracle to Postgres migration for a large monolithic code base with 1M+ LOC
- Supervised coops and worked with them to create and achieve goals to excel in their transition to full-time roles

SOFTWARE ENGINEER CO-OP

Jan. 2021 - Jun. 2021

- Worked individually and in pairs to develop RESTful API's within microservices to carry out full-stack development stories utilizing: Java, Kotlin, NodeJS, React, SQL, and AWS
- Led behavioral and technical interviews for Software Engineer Co-op candidates

LineVision

Sommerville, MA

SOFTWARE ENGINEER CO-OP

Jan. 2020 - Sep. 2020

- Optimized a Catenary fitting algorithm for speed and accuracy by utilizing modern mathematics research on conductor modelling
- Created a Python testing CI pipeline and standardized all testing, documentation, and code review requirements
- Created multiple internal tools used by Data Analysts in order to optimize common workflows

Projects

16 Bit MIPS Computer | 📁

Cambridge, MA

COMPUTER ARCHITECTURE | RUST | MIPS

Feb. 2023 - Present

- Designed a CPU to run on the Altera DE2-115 FPGA for a 16 bit subset of the MIPS assembly language
- Created a robust assembler and emulator for my modified MIPS assembly language in Rust

Education

Harvard University, Extension Studies

Cambridge, MA

CANDIDATE FOR M.S. IN SOFTWARE ENGINEERING

Jan. 2023 - Present

Courses: Computer Architecture | Compiler Design and Implementation (Fall 2023)

Northeastern University

Boston, MA

B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Aug. 2018 - Aug. 2021

Courses: Grad. Algorithms | Grad. AI | Grad. Graph Theory | Software Development | Object Oriented Design | Computer Systems | Real Analysis

Extracurricular: VP of Northeastern Powerlifting Team | Northeastern Chess Club