

Los Angeles, CA
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Cameron Durham

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Education

Los Angeles, CA	University of Southern California	Aug 2018 May 2021
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- BS in Computer Science. GPA: 3.6

Lake Charles, LA	McNeese State University	Jan 2017 Jul 2018
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- BS in Computer Science. GPA: 4.0

Experience

Software Engineering Intern	Tesla	Aug 2020 – present
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- current intern on infotainment QA automation team, working on scaling up testing throughput for a rapidly expanding product lineup

SDE Intern	Amazon	May 2020 – Aug 2020
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- engineered lightweight Java-based framework for data and cache validation to support Seller Central
- improved customer satisfaction by lowering issue resolution time by 49%, ticket reassignment rate by 30%

Lead Course Producer	USC Viterbi	Jan 2019 – present
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- collaborated to craft unique, high-quality content in modern C++, data-structures, algorithms
- developed tooling for class of 300+ students with a cross-platform Docker based development and automated testing environment for C++

Software Developer Intern	Oracle	Jun 2019 – Aug 2019
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- designed caching, authentication systems, optimized API latency from backend with Node.js and Redis in a networked Docker container

Skills

- Programming Languages: C++, Java, C, Python, Bash, SQL, Rust, JavaScript, Node.js
- Technologies: Docker, Git, Google Cloud Platform, GDB, RabbitMQ, Redis, Jenkins, Jira

Projects

- **xv6 Operating System** Extentions on vanilla xv6 OS. Kernel level threads, multi-level feedback queue scheduler, memory management, copy on write optimizations. C, x86 assembly
- **the dining app** Implemented dining hall app backend with a scheduled web-scraper, database, and endpoint. Java, Python, Spring Boot, Google CloudSQL
- **Crossword** Networked, multiplayer crossword puzzle game with tightly packed board from custom algorithm. Java
- **C Compiler** Simple C compiler including recursive descent parser, semantic analysis, IR generation, static single assignment form, optimization passes, and register allocation. C++, LLVM