Dustin Newman

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EDUCATION

University of California, Los Angeles
B.S. - Computer Science and Linguistics - 3.6 GPA
Sept. 2016 - June 2020

Relevant Coursework
Data Structures and Algorithms • Computer Organization • Operating Systems • Programming Languages • Artificial Intelligence • Human-Computer Interaction

SKILLS

Languages
C • C++ • Rust • Go • Swift • Python

Technologies
PostgreSQL • Redis • Docker • Kubernetes • Linux • AWS • GCP • Node.js

Tools
Git • Shell • JTAG • iOS SDK

EXPERIENCE

Apple: Engineer *(April 2021 - Present)*
Qualcomm Atheros: Software Engineer *(June 2020 - April 2021)*
- Implemented driver support for Wi-Fi packet aggregation in embedded systems.
- Transitioned legacy networking code to modern, backwards-compatible support.
- Developed deep understanding of IEEE 802.11 standards and industry requirements.
- Manage multiple architectures and feature requests on tight deadlines.

Qualcomm: Software Engineering Intern *(June 2019 - Sept. 2019)*
- Increased test coverage by 60% by writing testing framework in PRACTICE (.cmm).
- Created architecture-specific tests for proprietary implementations of transport layers in hardware networking stack.
- Analyzed and understood large embedded C codebase.

Daily Bruin: Online Director *(Jan. 2019 - Jan. 2020)*
- Supervised 80+ contributors in web application development.
- Managed over 20 Kubernetes deployments averaging 300,000 views/month.
- Deployed and operated web applications, Redis, WordPress instances, ElasticSearch, and databases over AWS.

SELECTED PROJECTS

Radius (iOS, Swift, AWS Lambda, PostgreSQL)
- iOS location-based social media app.
- Developed scalable, microservice architecture via AWS supporting push notifications, PostgreSQL databases, and Lambda functions for user blocking.