





Ravi Jayanthi

Software Engineer

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EXPERIENCE

Amazon | Software Engineering Intern

June 2017 - September 2017

- Worked on Device Audio for Echo Software team, building new features and fixing bugs for Echo Dot & Amazon Tap
- Delivered finer audio output control by designing and developing a new full-stack feature for the Echo Dot, **relieving a pain point for millions of customers**
- Conducted deep feature investigation into common device audio issues of speaker discharge & switching
- **Resolved high-severity bugs** for multiple device platforms with patches and improvements in kernel drivers, HAL modules, media framework, application AudioPolicy, and cloud companion app

American Express | Software Engineering Intern

June 2016 - September 2016

- Created new full-stack, scalable web app to simplify & secure CRUD operations to a SQL Database, allowing developers a safer alternative to writing more error-prone SQL statements
- Built encrypted log-in system to give specific users privileged edit access that came in tiers
- Designed and implemented responsive web interface with HTML/CSS/JS to minimize user friction
- Constructed programmatic API allowing developers to interact with user data using safer access methods
- **Won company hackathon** for Data Visualization web app built with morris.js and Google Maps API
- Directly **increased developer productivity** and business unit efficiency by reducing overhead on database operations **by 300%**

Schneider Electric | Software Engineering Intern

June 2015 - September 2015

- Extended a time-series cloud database's functionality to showcase data patterns over a period
- **Reduced down-time** for all cloud-based database applications deployed to production **by 400%**

National Institute of Health | Researcher & Developer

September 2015 - September 2016

- Built text mining tools for AZtec Biomedical-Software Indexer using Python NLTK for a **50% decrease in resource look-up time**
- Deploying diagnostic features for the website with Javascript and Google Embed API to track popular features, facilitating a **100% increase in website hits**

EDUCATION

UCLA

Computer Science, B.S.
Graduating June 2018

SKILLS

Programming

Python, C/C++, Java, HTML/CSS, OCaml

Technologies

ASP.NET MVC, Azure, AWS EC2, YQL, Google Analytics, Linux

PROJECTS

Boulder Blast | C++

 <http://bit.ly/2dwoORb>

- Built a puzzle/shooter game on top of a provided OpenGL framework.
- Game design, including class inheritance flow and implementation, was hand-built

Falcon | WebGL/JS

 <http://bit.ly/2fYTvo2>

- Built a 3D animation of the Millennium Falcon taking off and maneuvering through space
- All coloring and texturing implemented robustly to reflect light dynamically
- Designed two-level hierarchical objects for the complex components
- Live Demo: <http://falcon.surge.sh>

Watchface | C/Pebble.js

 <http://bit.ly/2dyTgXG>

- Custom app for Pebble smart-watch
- Uses bitmap layers to display weather from Weather.com API
- Also features a Pomodoro timer for the popular study method