Ravi Jayanthi

Software Engineer

- /in/ravikjay
- ravikjay
- ravikjay@gmail.com
- ravikjay.github.io

EXPERIENCE

Amazon | Software Engineering Intern

June 2017 - September 2017

- Lab 126 - Home Products

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
- Developed & deployed a **customizable Azure Worker Role** in that queries Yahoo Finance API for stock data to record
- Implemented new feature in the same NoSQL database to have it observe/record its own internal communications, server calls, and general functionality to self-diagnose in case of crashes or errors
- **Reduced down-time** for all cloud-based database applications deployed to production **by 400%**

Scalable Analytics | Researcher & Developer

September 2015 - September 2016

- Developing for AZtec Biomedical-Software Indexer as part of the Big Data initiative for **National Institute of Health**
- Built text mining tools using Python NLTK to scrape, parse, and record external biomedical software papers
- Deploying diagnostic features for the website with Javascript and Google Embed API for website extension and extended database functionality and usage
- Gave management concrete metrics for popular features, facilitating a **100% increase in website hits**

EDUCATION

UCLA

Computer Science, B.S.
Graduating June 2018

SKILLS

Programming

Python, Java, C++, HTML/CSS

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
- Features leveling, AI enemies, and power-ups

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 spaceship 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