Scott Hamal

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EDUCATION

CARNEGIE MELLON
BS in Electrical and Computer Engineering
Class of 2019 | Pittsburgh, Pennsylvania
GPA: 2.94/4

FLINT HILL SCHOOL
Grad. May 2015 | Oakton, Virginia
GPA: 3.9/4

LANGUAGES

EXPERIENCED
Java
Python 3
Python 2.7
C
JavaScript
HTML
CSS

SOME EXPERIENCE
SQL
Swift
SystemVerilog
x86

OTHER TECHNOLOGIES

Git, Spring, Docker, Intellij, Gradle, Mockito, FlyWay, Project Lombok, Factory Duke, Swagger

CLASSWORK

15-122 Principles of Imperative Programming
15-213 Introduction to Computer Systems
21-765 Introduction to Parallel Computing and Scientific Computation
17-648 Engineering Data Intensive Scalable Systems

INTERESTS

SIGMA ALPHA EPSILON CMU
2017 Spring Recruitment Chair
MUSIC PRODUCTION
FL Studio

JOB EXPERIENCE

UPMC ENTERPRISES Full Stack Software Development Intern
Summer 2017 | Pittsburgh, PA | http://vincentpay.com/
- Worked in a start up environment on an application for distributing payments across groups.
- Used for research studies and varsity sports teams at the University of Pittsburgh.
- Created receipt generation service with multiple endpoints for different types of receipts
- Added front end support for new receipt generation capabilities.
- Worked closely with a software developer mentor, having all my code reviewed and discussed before finally being deployed in the initial launch.
- Followed company wide standards for unit testing and dependency injection design.
- Participated in daily standup, sprint planning and reflection, and grooming meetings.
- Java/Spring, JavaScript/AngularJS

CARNEGIE MELLON SOFTWARE ENGINEERING INSTITUTE
Intern at Computer Emergency Response Team
Summer 2016 | https://www.cert.org/
- Worked on a project adding hackable virtual machines into a multiplayer first person shooter game, allowing elements in the game to be hacked.
- Created a webapp displaying live in game cameras in the web browser.

DZYNE TECHNOLOGIES Intern
Summer 2015 | Fairfax, VA
- Built a Quadcopter with Wookong-M FCS and onboard Jetson TK1.
- Setup Jetson TK1 with onboard camera and OpenCV.

PROJECTS

RAMP: A P2P APPLICATION chat, filesharing, videochat
May 2017 | 21-765
- Made a decentralized p2p chat application with text chat, video chat, and file sharing.
- Written in Python 2.7 using sockets, threading, and object oriented programming.
- Included setup shell script for linux system as well as man pages.
- Used SQLite to store and query past messages and file requests.
- Final GUI used tk for a native feel.

TRIALFINDER Hackathon Project at SteelHacks 2016
Won Award for Best Medical Hack given by UPMC
- By scraping data from a clunky government website, created an interface for a user to make a profile and find clinical trials that apply to them.
- Using these profiles, a health care provider could have better information on possible trial applicants to better choose locations for clinical trials to occur.
- Using Python 3 and webscraping library Beautiful Soup.