

Michael Lee

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OBJECTIVE

Looking for a full-time position as a Software Engineer.

EDUCATION

BS Computer Science - Oregon State University, Corvallis, OR

Graduating April 2018

Academics: 3.75/4.0 GPA

Honors: Academic Achievement Award, OSU Honor Roll

SKILLS

Proficient: Python, Swift, C++

Familiar: C, Flask, C#, Java, Linux, .NET Framework, JavaScript, MongoDB, SQL

Tools, Utilities, and IDEs: Vim, Git/Svn, Xcode, Visual Studios, SQL SMS, MongoVUE, Travis, Latex, HTML/CSS

EXPERIENCE

Undergraduate Research Developer (OSU Food Science and Technology, Corvallis, OR)

September 2017 – Present

- Developing an IOS application in Swift to assist small PNW food growers with new Food Recall laws. Will provide remote access to Recall forms, user authentication, and inventory management.
- Uses a REST API built with Flask to manage the backend data, and MongoDB for storage.

Software Engineering Intern (Intel Security, Hillsboro, OR)

March 2016 – September 2016

- Full stack implementation of a web-based dashboard in C# for monitoring the efficiency of their Anti-Virus scanning system using asp.NET.
 - Aggregated system data into a charting API to provide a quick overview of performance and system health.
 - Implemented utilities to restart servers, execute remote programs, and to view log files for debugging.
- Automated the detection of failures in production and resolved them or alerted the relevant SWEs.
- Created an external web-service for customers to upload, scan, and view the results of their potentially malicious samples.

PROJECTS AND CLASSWORK

Senior Project / Capstone – C7Fit

September 2016 – June 2017

People's Choice – OSU Undergraduate Engineering Expo 2017

- Developed an iOS Application in Swift for Portland fitness gym in combination with eBay. Included account management, run tracking, fitness tracking, and shopping.
- Integrated iOS native frameworks with Google's Firebase to track and store user fitness data remotely.
- Used MapKit's location services to map and replay user's runs.

Machine Learning and Data Mining (github.com/willmichael/Data-Mining)

Spring 2017

- Implemented common machine learning algorithms in Python: Decision Trees, Naïve Bayes, Logistic Regression, Clustering.
- Implemented a Recurrent Neural Net (LSTM) using Keras for NLP, and tested our results on datasets from Kaggle.

Operating Systems – Kernel Development (github.com/orrelln/CS444)

Spring 2017

- Implemented the C-LOOK I/O scheduler and Slab memory allocation using stock code in the Linux kernel, no-op and slob.c.
- Designed a shell clone in C that emulated commands of cd, exit, status, managed background processes and user I/O.

Computer Security (github.com/willmichael/ComputerSecurity)

Fall 2017

- Implemented a time based one-time pad in Python to match Google's Authenticator App.

Translators – C minus compiler (github.com/willmichael/compilercminus)

Winter 2017

- Designed a compiler in Java based on a set of limited grammars dubbed C minus.

RELEVANT COURSES

- Machine Learning & Data Mining, Algorithms, Data Structures, Translators, Computer Architecture, Operating Systems