Robert M. Jones
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EDUCATION

Stanford University, Stanford, CA **Sept 2015-expected June 2019**

- Pursuing Bachelor of Science degree in Computer Science, Bachelor of Science degree in Mathematics
- Completed Courses: Machine Learning, Computer and Network Security, Probabilistic Graphical Models
- Courses for 2018-2019: Natural Language Processing with Deep Learning, Compilers
- Current GPA: 3.78/4.0

Stanford University, Stanford, CA **Fall 2018-expected Fall 2020**

- Pursuing Master of Science degree in Computer Science (coterminal program)

ENGINEERING EXPERIENCE

Software Engineering Intern (Cybersecurity) - Intuit, San Diego, CA **Jun 2018-present**

- Investigating the use of property graphs in static code analysis for vulnerability finding

Course Assistant - Stanford University, Stanford, CA **Sept 2017-present**

- Course assist for CS106A (Winter 2018), CS106B (Fall 2018), and CS110 (Fall 2017/Spring 2018)
- Hold office hours, grade assignments and exams, answer homework and conceptual questions online
- Run a weekly section for students to go in depth with practice problems

Software Engineering Intern - Oracle, Redwood Shores, CA **Jun 2017-Sept 2017**

- Developed natural language understanding solutions for Oracle's mobile chatbot development platform
- Investigated ways to bootstrap bot design process by enabling bot interaction with knowledge graphs

Software Development Intern - NetQuarry, Fullerton, CA **Jun 2016-Sept 2016**

- Designed responsive and interactive web pages with JQuery and other JavaScript APIs
- Wrote HTML email templates that show dynamic customer data and render correctly in all email clients
- Created SQL views from tables which are queried and displayed to the client or mapped to objects in code

TECHNICAL SKILLS

- Advanced: Java, Python; Proficient: C, C++, Unix, SQL; Basic: HTML, CSS, JavaScript, C#

NOTABLE PROJECTS

Range Minimum Queries **June 2018**

- Investigated Range Minimum Queries and their extension to arbitrary dimensional spaces
- Implemented multiple RMQ solutions (e.g., the Fischer-Heun Structure), compared runtime/memory usage

Extracting Kinematic Information Using Pose Estimation **Apr 2017-June 2017**

- Researched usage of convolutional neural networks for extracting joint angles and velocities from a video file
- Trained models using Caffe on Microsoft's COCO dataset
- Replaced portions of large networks with smaller models (e.g. AlexNet) to reduce memory usage and runtime

Online Harassment Reporting Chatbot **Feb 2017**

- Built chatbot using wit.ai to handle user reports of online harassment, integrated with Facebook Messenger
- Enabled connection with Postgres database to automatically store information from the bot's conversation
- Hosted a Flask application on Heroku to handle extraction of information for database storage

Stack Overflow Query Prediction **Sept 2016-Dec 2016**

- Trained machine learning classifiers to predict the outcome of Stack Overflow Questions
- Used scikit-learn classifiers including support vector machines and adaptive boosting