Sirjan Kafle

http://sirjank.github.io
sxkafle12@gmail.com | 972-900-2931

EDUCATION

UNIVERSITY OF CALIFORNIA BERKELEY
Electrical Engineering and Computer Science
Expected May 2018 | Berkeley, CA
College of Engineering
Cum. GPA: 3.93 / 4.0

LINKS

Github:// **SirjanK**
LinkedIn:// **sirjankafle**

COURSEWORK

COMPUTER SCIENCE

CS189 - Machine Learning
CS170 - Efficient Algorithms
CS162 - Operating Systems and Systems Programming
CS176 - Algorithms for Computational Biology
CS186 - Database Systems
CS61C - Machine Structures
CS61B - Data Structures
CS70 - Discrete Math and Probability Theory
CS61A - Structure and Interpretation of Computer Programs

EE & MATHEMATICS

EECS126 - Probability and Random Processes
EECS127 - Optimization Models and Applications
Math104 - Real Analysis
Math54 - Linear Algebra & Differential Equations
Math53 - Multivariable Calculus
EE16A/B - Designing Information Devices and Systems 1 & 2

PROGRAMMING

Languages
Java • Python • C • Scala • Pig • JavaScript • SQL
Tools/Platforms
Android • Hadoop • TensorFlow • Flask • Gradle • HTML • CSS • Bash Scripting
Other
Git • UNIX • LaTeX

EXPERIENCE

LINKEDIN Machine Learning & Relevance Engineer Intern

May 2017 - Aug 2017 | Mountain View, CA

- Modeled and Engineered own project on the Feed Relevance team to realize new efforts put in place by the team.
- Lifted relevant metrics associated with the team through the project and set groundwork for further experiments.
- Worked with TensorFlow to build models and big data platforms like Hadoop to investigate and prepare large datasets.

HERE Highly Autonomous Driving Software Intern

June 2016 – Jan 2017 | Berkeley, CA

- Built an Android Surface Application to communicate with various pieces of hardware using the Robot Operating System Java library.
- Facilitated data collection for creating Maps to aid Autonomous Driving efforts.
- Worked under the Agile system with daily standups, frequently showcasing features personally implemented to stakeholders.

MOBILE DEVELOPERS OF BERKELEY Product Manager

August 2015 - Current | Berkeley, CA

- Led an Android team to build a medical application for an outside client.
- Acted as PM and Software Architect, collaborating with the client on feature requests and cross platform compatibility, as well as building with the team.

PERSONAL PROJECTS

WIREFLY CalHacks Capital One Prize Winner

- Developed a Web App to simulate optimal peer-to-peer network for international money transfers.
- Modeled a graph network for money transfers all across the world as a Linear Program, on which the Simplex algorithm was run.
- Employed real data on transfer rates and used the Capital One API to create accounts in a variety of countries to create a complicated network.

LOCSERV Raspberry Pi Application in Python

- Wrote a Local Flask Server hosted using Ngrok as a Webhook for the Twilio API to send and receive terminal commands via SMS messages.
- Ran the commands synchronously on the Raspberry Pi (although compatible with other Linux machines) and sent output back to user.
- Scripted Python and Bash commands in order to generate a seamless method for setting up the Server and configuring the webhook.

QLIC ANDROID APPLICATION Social Media Transmission App

- Designed and developed an Android Application dealing with sharing information with surrounding groups.
- Used the Google Nearby API for transferring string payloads and dealt with custom serialization and deserialization.

CONCENTRAID ANDROID APPLICATION Student Study Aid App

- Engineered an Android Application for breaking up study time based on the Pomodoro Effect.
- Used open source libraries dealing with various specialized Views and adopted a system of Callbacks for managing tasks.