Sirjan Kafle

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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 | Senior Android Developer

August 2015 - Current | Berkeley, CA

- Guided new teams in the Mobile Developers club of Berkeley club with Android development, from the design phase to release phase.
- Wrote new Android Platform tools for club use and open source use.

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.