Sirjan Kafle

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EDUCATION

UNIVERSITY OF CALIFORNIA BERKELEY

ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Expected May 2018 | Berkeley, CA College of Engineering Dean's Honors Cum. GPA: 4.0 / 4.0 Major GPA: 4.0 / 4.0

LINKS

Github:// SirjanK LinkedIn:// sirjankafle

COURSEWORK

COMPUTER SCIENCE

CS189 - Machine Learning

CS170 - Efficient Algorithms

CS186 - Database Systems

CS61B - Data Structures

CS70 - Discrete Math and Probability Theory

CS61A - Structure and Intrepretation of Computer Programs

ELECTRICAL ENGINEERING

EE16B - Designing Information Devices and Systems 2

EE16A - Designing Information Devices and Systems 1

MATHEMATICS

Math53 - Multivariable Calculus Math54 - Linear Algebra and Differential Equations

PROGRAMMING

Languages

Java • Python • JavaScript • Ruby • SQLite

Tools/Platforms

Android • Raspberry Pi • Flask • HTML • CSS • Firebase • Bash Scripting

Other

Git • UNIX • LaTeX

EXPERIENCE

HERE | HIGHLY AUTONOMOUS DRIVING SOFTWARE INTERN

June 2016 - Current | Berkelev, 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.
- Writing new Android Platform tools for club use and open source use.

EE16A COURSE STAFF | READER/TUTOR/LAB ASSISTANT

January 2016 - May 2016 | Berkeley, CA

- Aided Students for Labs and HW while also grading assignments.
- Labs such as Image Processing and Locationing with Sound Waves included programming assignments in Python, which required frequent usage of the NumPy Library.

PERSONAL PROJECTS

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.

YACKRANK Visualize YikYak posts for Colleges around the Country

- Developed a web app using Flask and Python to analyze Yik Yak posts from colleges across the U.S.
- Displayed various information such as top post, most frequent word (after filtering out articles and common words), and results of a natural language library to detect average reading level on a Google Map view.

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.