Sirjan Kafle

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EDUCATION:

University of California at Berkeley	Berkeley, CA
Electrical Engineering and Computer Science	Aug 2015-Current
Science and Engineering Magnet	Dallas, TX
Rank: Valedictorian | GPA: 4.0	Aug 2011-May 2015

EXPERIENCE:

Mobile Developers at Berkeley
Developed Android mobile application Concentraid that employed the Pomodoro Effect to combat procrastination. Used Java to calculate the optimal ratio of work to break time for a task.

Android CS 61A App
Designed Android Mobile Application for Freshman CS class that potentially aids over a 1000 students. Parsed the course website using Java, organized Assignment objects (OOP), and worked with CardViews in Android.

Linear Algebra Solver (in progress)
Developing a Linear Algebra Web Application using Django (Python) that allows users to specify certain Linear Algebraic Computations. The Web Application outputs step by step calculations for the user. Designed own Matrix and Vector class in order to show intermediate processes (instead of just Numpy).

StreetUP Web Application at CalHacks (in progress)
Proposed and engineered a Web Application for organizing Pickup Basketball games at Berkeley using Angular JS, HTML5, and CSS for Frontend development, and Flask and SqlAlchemy for Backend development.

UIL Computer Science Team Captain
Collaborated with a 3 person team in a Texas Wide Java programming competition. Modeled after ACM Intercollegiate Programming Competition.

Research at University of Texas at Dallas (Nanoexplorers Program)
Designed and manufactured THz Optical waveguides. Worked extensively with MATLAB and LaTeX to design and analyze graphs and presentations.

COURSEWORK:

UC Berkeley:
CS61A – Structure and Interpretations of Computer Programs, Practical Programming – Git, Web Development, Usage of APIs, Open Source Contributions, Additional Topics in 61A – Supplementary Course covering Lambda Calculus, Object System Implementation, Machine Learning, and more.
EE16A – Designing Information Devices and Systems 1, Math 54 – Linear Algebra & Differential Equations
Science and Engineering Magnet:
AP Computer Science – Java Programming Class, Web Programming – Javascript, HTML5, CSS, Flash/Actionscript Class

AWARDS:

UIL Calculator Applications State Champion:
Organized and led 4 person team to win first place in Texas for pre-engineering, problem solving competition.

SKILLS & LANGUAGES

Proficient: Java, Python, Javascript, SQLite, Scheme, Flash/Actionscript, MATLAB
Some Experience: Flask, AngularJS
Skills: HTML5, CSS, Git, LaTeX, UNIX