Sridatt Bhamidipati

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Education

University of California, Davis Davis, CA **Expected Graduation: June 2017**
Intended Major: B.S. Computer Science & Engineering Major GPA: 3.40

Skills

Languages – C++, C, Node.js, JavaScript, HTML, Unix, Git, MATLAB, Objective-C
Tools - MongoDB, Bootstrap, XCode, Microsoft Word, Excel, PowerPoint, GDB Debugger

Projects

Delivr | HTML, JavaScript, JQuery, Node.js, MongoDB, Git **February 2015**

- Created an Uber-like web app for food delivery featuring a newsfeed of user-updated requests
- Used MongoDB + Node.js for back-end and AJAX framework + jQuery library for front-end
- Integrated Facebook API for login system and push notification compatibility on iOS using Firebase

NetworkMe | HTML, JavaScript, JQuery, NodeJS, MongoDB **December 2014**

- Built a web app that allows users to create accounts and upload pictures onto a newsfeed
- Implemented features such as liking/commenting on photos and searching for/following users
- Used MongoDB + Node.js for back-end and AJAX framework + jQuery library for front-end

Sustainable Urban Planning | MATLAB **May 2014**

- Created a computer app in which users can drop solar panels and wind turbines on a map of a city
- Incorporated features that allow users to view energy statistics based on strength of devices + dropped locations and save/load the image when desired
- Implemented the graphic user interface and back-end in MATLAB

Experience

Scanning Tunneling Microscopy Research | Undergraduate Researcher **August 2014 – Present**

- Created a mechanical design of a geared stepper motor-based scanning tunneling microscope
- Performed lab experiments to measure electrical conductance of gold nanoparticles

Western Association of Schools & Colleges Visit | WASC Committee Member **March 2013**

- Conducted surveys, interviews, and meetings with staff and students of California High School
- Discussed and analyzed observations taken during the day alongside team of six administrators
- Drafted a detailed narrative containing feedback about the school's curriculum

California State Summer School for Mathematics & Science | Student **July 2012 – August 2012**

- Learned elementary aerodynamic theory with emphasis on rocket equations and sensors/actuators
- Wrote a paper discussing the effects of viscosity in boundary layers that occur on surfaces of objects

Coursework/Activities

Engineering – Advanced Circuit Analysis (current), Principles of Device Physics (current)
Computer Science – Data Structures in C++(current), C, C++, MATLAB, x86 Assembly
Math – Differential Equations, Multivariable Calculus, Linear Algebra, Discrete Mathematics
Clubs – IEEE, Robotics Club, Tennis Club, Southeast Asian A Capella Team