SHRIMATHI VETRIVELAN

svetri@ucdavis.edu | linkedin.com/in/shrimathiv | (510) 402-9612

EDUCATION

Davis, CA   **University of California, Davis**   **Expected: June 2018**

- **B.S. in Computer Science, Minor: Technology Management**
- **GPA: 3.4/4.0,** Dean's Honors List- Spring 2015, Fall 2016, Winter 2017
- **Computer Science Coursework**: Object Oriented Programming; Data Structures; Algorithm Analysis; Computer Architecture; Database Systems; Operating Systems; Statistical Computing for Big Data; Advanced Algorithm Design; Probability and Statistical Models; Machine Dependent Programming; Combinatorics; Linear Algebra
- **Technology Management Coursework**: Financial Accounting; Managerial Accounting; Supply Chain Management; Marketing for Enterprises; Technology Management; Business Writing; Intercultural Leadership

SKILLS

Programming Languages: C++, C, Python, R, SQL, HTML, CSS, JavaScript, MATLAB, x86 Assembly

WORK EXPERIENCE

Student Web Developer- UC Davis   **March 2017- Present**
- Responsible for maintaining and updating website for the NEAT/ICAM Lab.
- Improve web page designs and increase functionality to ensure better user interaction.
- Facilitate lab application cycles through data collection, compilation and extraction of reports.

Software Engineering Intern- Albertsons Companies   **June 2017- August 2017**
- Developed scripts to publish Technology Standards on company's SharePoint site for broad consumption.
- Captured requirements from Enterprise Architecture team and lead project through full software life-cycle.
- Used jQuery (AJAX calls) to fetch JSON data from REST interfaces and convert JSON responses to dynamic HTML content. Designed webpage UI using SharePoint native capabilities/Designer tools and JavaScript.

PROJECTS

- **Simple Shell** (2017). Developed a command-line interpreter that accepts input from user and executes built-in commands -including redirection, piping, and background commands- using specific UNIX system calls. *C*.
- **Fraud Detection** (2017). Analyzed credit card transactions to identify fraudulent activity. Classification algorithms applied to the dataset: Random forest, logistic regression, and Naïve Bayes. Compared accuracy of algorithms to identify the best for fraud detection. *Python.*
- **User-Level Thread Library** (2017). Implemented a library for Linux that provides an interface for applications to create and run independent threads concurrently. Includes scheduling threads, providing a synchronization mechanism, and an interrupt-based scheduler. *C.*
- **Database Design** (2016). Designed the structure and entity relationships for a university registrar database. Created a python script to import 23 years of data from CSV files into the designed database. Identified and handled duplicate/corrupted data efficiently. Wrote queries to access, update and analyze data. *SQL, Python.*

LEADERSHIP

- **Prytanean Women's Honor Society** (2016- Present): Member of UC Davis' most prestigious women's honor society. Promote scholarship and leadership through service in the University and community.
- **iidata** (2016- Present): Publicity Chair of annual Data Science conference held at UC Davis.
- **Davis Women in Business** (2016- Present): Member of professional organization that empowers women through professional networks, business opportunities and leadership conferences.