

Shivam Desai

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EDUCATION

University of California, Davis, Davis CA

BS Computer Science and Engineering

Expected graduation: June 2020

Relevant Coursework- Algorithm Design and Analysis, Programming and Problem Solving (C), Python Programming, Software and Object Oriented Programming (C++), Data Structures and Programming, Circuits I, Machine Dependent Programming, Introduction to ECE

PROFESSIONAL EXPERIENCE

MediSens Wireless

Software Engineering Intern

Santa Clara, CA
June 2017 – Present

- Build Arduino-controlled bot to dispense regulated volume of fluid.
- Automate testing procedure for wearable IoT healthcare device.
- Developed Bluetooth android application to interface with bot.

University of California

Undergraduate Research Intern - Computer Engineering Lab

Davis, CA
August 2017 - Present

- Working on the Gunrock project, a CUDA library for graph-processing designed specifically for the GPU.
- Create unit tests (using Google test and Ctest) for graph primitives.
- Debugged existing GPU MaxFlow application.
- Implement MaxFlow and Breadth-First Search (BFS) algorithms to write Gunrock GPU applications.
- Integrate existing MaxFlow implementation into Gunrock library.
- Programming practices: Continuous integration, Git branching workflow, and Documentation.

SitterFriends

Software and Operations Intern

Dublin, CA
Jun – Sep 2017

- Developed preliminary UI designs for website using HTML and CSS.
- Designed and implemented UI and UX flow for the SitterFriends iOS app.

SELECTED PROJECTS

- **Gunrock** – contributed to research project for **Graph Analytics** on the GPU.
- **BillSplit** – designed, tested and implemented **iPhone application** that will split any bill based on each individual's usage of items.
- **Calendar Appointment System** – developed **C++ program**, as part of Software Development Course, that is capable of creating and amending appointments to one's schedule.
- **Autonomous Self-Driving Car** – implemented autonomous agent on self-driving car simulator using Keras to train a convolutional neural network on images from car cameras and steering angles from human driving.

PROFICIENCIES

- **Programming/Scripting Languages:** C++, C, Python, Swift, MATLAB, Java, HTML, CSS, Bash
- **API/Frameworks:** CUDA, Django, Bootstrap