Samvit Agarwal

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EDUCATION

University of California, Berkeley   Expected Graduation: 05/2024
B.S. in Electrical Engineering and Computer Science

Relevant Courses: CS 70(Discrete Mathematics and Probability Theory), CS 61A(Structure and Interpretation of Computer Programs), EECS 16A(Designing Information Devices and Systems I).

Princeton University   09/2020 - 05/2021
Computer Science

Relevant Courses: COS 226(Algorithms and Data Structures), COS 217(Introduction to Programming Systems).

EXPERIENCE

Evitado Technologies, *Software Engineer Intern*   06/2021 - Present
- Analyzed code workflow to identify areas suitable for parallel processing.
- Integrated NVIDIA CUDA into identified segments of code to optimize runtime for processing tasks.
- Prepared storylines and pitch points for investor presentations.

Hospified, *CEO & Co-Founder*   09/2019 - Present
- Built platform aimed at bringing transparency to medical prices through user crowdsourcing.
- Crafted Web App from scratch using dynamically rendered HTML combined with CSS and JS for the frontend + Node.js and MongoDB for custom database and backend functions.
- Won the national Congressional App Challenge - Invited to Capitol Hill and commended by US congresswoman.

CS Remastered, *President & Founder*   06/2018 - Present
- Started 501(c)(3) nonprofit organization aimed at teaching students one-on-one personalized computer science for free.
- Got 350 students, 300 volunteers, & 6 global branches. Solicited sponsorships from notable companies including Google and Wolfram(valued at $10K+).
- Received national Gold Presidential Volunteer Service Award and Point of Light Award. Featured on NJ.com and The CS Monitor.

PROJECTS

Intellicity - Web + mobile app that provides live information about important local events such as crimes & imminent danger through user crowdsourcing. **Won Top 30 at PennAPPS 2019(800+ competitors).**

Social Eyes - Web-based social media monitoring system that provides a simple interface to identify and remove potentially inappropriate/profane posts from social platforms. **Won 1st place at MakeSPP 2018(150+ competitors).**

Crisis Connect - App that provides victims of natural disasters a simple way to communicate without wifi or cellular networks through a mesh network. **Won Top 5 at ProfHacks 2019(200+ competitors).**

Unifyd - Decentralized marketplace connecting vendors to buyers amidst COVID-19.

RESEARCH

NJ Governor's STEM Scholars Program   09/2020 - 06/2021
Selected in an annual group of 90 students(1,000+ applications). Worked on a year-long research project analyzing flood resistant homes through machine learning and core engineering principles.

Rutgers Intelligent Visual Interfaces Lab   06/2020 - 09/2020
Used TensorFlow and OpenCV to analyze and classify indoor and outdoor signs. Developed 3D renders using Rhino to determine optimal sign placement locations for maximum accessibility and visual clarity. Our work aims to help the visually impaired easily identify important signs.

TECHNICAL SKILLS

Algorithms, Python, Java, C, NumPy, TensorFlow, NVIDIA CUDA, HTML/CSS/Javascript, MongoDB, Google Cloud, Node.js