Sambhav Sunkerneni

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EDUCATION

University of California, Berkeley   Expected 2021
B.A. Computer Science   Technical GPA: 3.93, Overall GPA: 3.88
Relevant Courses (*Current): *Algorithms, *Machine Learning, *Computer Architecture, Data Structures, Linear Algebra and Differential Equations, Discrete Math and Probability, Intro to CS, Data Science Decal

EXPERIENCE

Software Engineering Intern – Intel   May 2018 - Aug 2018
- Wrote programs to automatically generate properly-wired VLSI modules from raw instance data
- Designed probabilistic string similarity algorithm to classify domain-specific strings
- Used summary statistics and unsupervised SVM model to detect anomalies in circuit data
- Built parser to search for missing domain-specific strings in specific areas of large code files

Academic Intern – UC Berkeley   Jan 2018 - May 2018
- Tutored students for CS61a (Intro to CS) and taught lessons on basic algorithmic analysis

President, Founder – Evergreen ECSS   Aug 2015 - May 2017
- Spearheaded content creation, management, and teaching of 30+ Python workshops & classes at multiple local libraries, as leader of registered nonprofit

SIDE PROJECTS

Tileman – Tile Based Adventure Game *(Python, Pygame)*
- Built complex world-representation system implementing data compression, dynamic tile-object rendering, smooth map rastering and updating, and OOP hero-environment interactions

Pictacular – Photo Mosaic Creator *(Python, Flask, Pillow, JavaScript, HTML/CSS)*
- Designed photo approximation algorithm using dynamic programming and color sampling techniques to efficiently construct mosaic from database of thousands of images

CS61a (Intro to CS) Grade Calculator *(Python, BeautifulSoup)*
- Scrapes Okpy grade portal's HTML, extracts grade data and computes grade statistics
- Used extensively by fellow CS61a students: 200+ users

Cardy – Virtual Postcard Creator *(Python, Pillow, Tkinter)*
- Desktop email client that detects user location, filters Flickr photographs taken nearby, offers selection of scenic photographs and allows users to email virtual postcards to friends

AWARDS & SKILLS

Jane Street ETC Coding Contest, 8th Place	2018
AIME Qualifier (**Top 1.5%** out of 170,000 Students in National Math Contest)	2016, 2017
Cal Alumni Association Leadership Award Scholar	2017
Stanford ProCo, 4th Place Speed Round (50+ Teams)	2016
Harker Programming Invitational, 4th Place (30+ Teams)	2016
USA Computing Olympiad, Silver Contestant	2015

Languages: Python, Java, Node.js, JavaScript, Scheme, HTML, CSS, SQL
Frameworks & Tools: UNIX, Git, Flask, Express, MongoDB, Django, jQuery/AJAX