

Shreya Vemuri

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EDUCATION

CARNEGIE MELLON UNIVERSITY

BS IN COMPUTER SCIENCE

MINOR IN STATISTICS

May 2017 | Pittsburgh, PA

Cum. QPA: 3.47

Dean's List (Spring 2015, Fall 2015)

THE HARKER SCHOOL

HIGH SCHOOL DIPLOMA

May 2013 | San Jose, CA

SOFTWARE / SKILLS

LANGUAGES

Python • Java • SML • C
C++ • JavaScript • HTML
CSS/LESS • SQL • Perl • LaTeX
Mathematica • R

TECHNOLOGIES

Node.js • Django • PyCharm • Redis
Git • Android SDK • Eclipse IDE
React • Fluxible • UNIX Testing
frameworks (CasperJS, Chai)

OTHER

Strong collaborator and effective leader; Results oriented, methodical, and efficient

NOTABLE COURSES

UNDERGRADUATE

- 15-418: Parallel Computer Architecture and Programming
- 15-415: Database Applications
- 15-213: Introduction to Computer Systems
- 15-210: Parallel and Sequential Data Structures and Algorithms
- 15-451: Algorithms
- 15-251: Great Theoretical Ideas (Discrete math)

HIGH SCHOOL

- Advanced Topics Computer Science: Expert Systems
- Advanced Topics Computer Science: Compilers and Interpreters
- AP Computer Science with Data Structures

EXPERIENCE

POLYVORE/ YAHOO | ENGINEERING INTERN

May 2016 – Current | Sunnyvale, CA

- Working on front-end features for desktop site using Node, React, and Fluxible

POLYVORE | ENGINEERING INTERN

May 2015 – August 2015 | Mountain View, CA

- Redesigned the home page for mobile web and worked on front-end features using JavaScript and Node.js
- Wrote data-access API endpoint using Perl
- Wrote unit/system tests and deployed to production

PIQORA | ENGINEERING INTERN

May 2014 – August 2014 | San Mateo, CA

- Created a dashboard web app using Python and Django that monitors server status by retrieving data from a Redis database, extracting and sorting important statistics, and displaying information in a useful manner

UNIVERSITY OF CALIFORNIA, SANTA CRUZ | COMPUTER ENGINEERING INTERN

June 2012 – August 2012 | Santa Cruz, CA

- Coded and developed an Android application that provides live tracking of the campus shuttle system and recommends nearest bus stops using algorithms

CARNEGIE MELLON UNIVERSITY | TEACHING ASSISTANT

January 2016 – May 2016 | Pittsburgh, PA

- Introduced programming and CS concepts to students through recitations, office hours, one-on-one help, and grading (15-110: Principles of Computing)

PROJECTS

PARALLELIZING BORUVKA'S ALGORITHM

- Worked with a partner for a course project to optimize Boruvka's algorithm for finding minimum spanning trees in C++ for improved CPU performance using OpenMP and parallelizing techniques
- <http://kfuh1.github.io/15418-project/>

CROSS-DEVICE 'RECENTLY VIEWED'

- Worked as part of a team over the course of 3 days to create a recently viewed items/ browsing history section synced across both desktop and mobile sites with JavaScript and Node.js

DYNAMIC MEMORY ALLOCATOR

- Malloc implementation for C; used implicit, explicit, and segregated lists and a first/best fit hybrid policy for freeing and allocating memory

ACTIVITIES

Undergrad

Women@SCS: mentor

High school

TA for AP Calculus BC, Student Government Secretary, Varsity Basketball, Tae Kwon Do (First-degree black belt)