David Zeng

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EDUCATION

CARNEGIE MELLON UNIV.

BS IN COMPUTER SCIENCE Expected May 2019 Cum. QPA: 4.00

COURSEWORK

(15312) Programming Languages (10701) Machine Learning (Graduate) (21270) Mathematical Finance (15751) Theorist's Toolkit (Graduate) (15359) Probability and Computing (15210) Parallel Algorithms (15213) Computer Systems

SKILLS

LANGUAGES

Experienced
C • Java • JavaScript • Python
HTML/CSS • OCaml • SML
Familiar
C++ • Rust • Scala

AWARDS

Putnam Top 500 (2015, 2016) ACM ICPC Regionals 10th/130 (2015) CMU Quant Competition First Place (2017)

USA Computing Olympiad Finalist (2014)

Codeforces Rating 1729 (Present) TartanHacks (2017)

• Won Student Impact First Prize

EXPERIENCE

ADDEPAR | SOFTWARE ENGINEERING INTERN

May 2017 - Aug 2017 | Mountain View, CA

- Worked on data pipeline, adding a service to parse data from S&P Corporate Actions feed and model numerous kinds of corporate actions. Built a dashboard to search through corporate actions.
- Improved internal financial entity lookup service to support listing level data.

LEANPLUM | SOFTWARE ENGINEERING INTERN

May 2016 - Aug 2016 | San Francisco, CA

- Rewrote user permissions system, adding more granularity and customization. Worked in **Python** and integrated authentication into existing pages. Created frontend permission interface using **AngularJS**.
- Added front-end latency monitoring. Defined and tracked metrics for user perceived latency.

TEACHING ASSISTANT | CMU School of Computer Science

Aug 2016 - Dec 2016

- 15-151 Mathematical Foundations for Computer Science
- Lead recitations, going over topics in discrete math and developing problem solving intuition

PROJECTS AND ACTIVITIES

CARNEGIE MELLON SOLAR RACING | OPTIMIZATION TEAM LEAD

Sep 2015 - Present | CMU student organization

- Lead design of new system of sensors to monitor power and propulsion system of a racing boat
- Integrated with Android application that formats and displays data to driver

KEYMAERAX | Undergraduate Research

Jan 2017 – Present | KeyMaeraX

- Worked on a counter example search tool for models of cyber-physical systems.
- Efficiently transformed problem into graph search and tested various heuristics
- Written in Scala

COURSE VIEWER

Feb 2017 | Course Planner

- Allow CMU students to import their transcript and visualize all courses they satsify the prerequisites for as a graph
- Made visualizations using d3.js.

CS RANKINGS

Dec 2016 - Jan 2017 | cs-rank

- Built Markov Chain representing which PhD programs top CS departments bire from
- Used PageRank to creating rank CS graduate schools, with subcategories for various fields.