

Stephen Clark

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Education

Carnegie Mellon University

Major in Computer Science

Minor in Machine Learning

Minor in Business Administration

May 2019 | GPA 3.33

Course Work

- 15-451: Algorithms (TA)
- 15-213: Computer Systems (TA)
- 15-410: Operating Systems
- 10-601: Machine Learning
- 15-381: Artificial Intelligence
- 15-210: Parallel Programming

Skills

Programming

- Python
- SML
- Java
- HTML/CSS
- Node.js
- C
- UNIX
- Bash

Projects

Spotify.AI 2018

Scalable Spotify automation suite for managing user's playlists.

- Flask
- Redis
- Task Queue (RQ)

ConvNet Logo App 2017

Designed an Android neural network app capable of detecting image logos in real time.

- Android SDK

Spirit Alumni DB 2017

Developed a career network system for club members to enhance university relationships with alumni members.

- Node.js
- MySQL

Experience

Quora – Software Engineering Intern Summer 2018

- Increased inventory by showing ads in Topic Feed while reducing complexity of ads selection by abstracting existing modules.
- Designed aggregated notification abstraction for batch sending notifications that are similar in a single deferred email.
- Restructured core ad unit models and MySQL table to improve readability and maintain efficiency while unblocking future work.

Qualcomm – Software Engineering Intern Summer 2017

- Developed tool for intercepting messages sent between modem software modules and recording resulting internal FSM transitions.
- Implemented new strategy for sending large and critical configuration packets, that lead to significant speed improvements.
- Presented new tools in meetings as member of 5G software team.

Dassault Systemes – Software Engineering Intern Summer 2016

- Constructed Pipeline Pilot protocols to showcase the new scientific Python integration features and built dynamic HTML5 dashboards.
- Developed git and svn based Pipeline Pilot version control models.
- Participated in both feature design and peer code review meetings.

Software Engineering Institute – CERT Intern Spring 2016

- Developed the CERT STEPfwd platform, a cyber security training resource used and commissioned by the US Department of Defense.
- Worked on GreyBox project, simulating the internet in just one VM.
- Designed STEPfwd API functionality for use by physical interfaces.

Measurabl, Inc. – Software Engineering Intern Summer 2015

- Developed Python utility data weather normalization models and created Java 8 map routines to resolve geolocations to counties.
- Responsible for development of an internal Google Scripts tool to automate operational procedures involving utility data sanity checks.

Activities

Spring Carnival Committee – Co-Chair 2015 - Present

- Elected to an executive position responsible for planning, developing and promoting the university's largest community fundraising event.
- Administered vendor relationships, budgeting constraints, and marketing strategies responsible for increasing alumni attendance.

National Society of Black Engineers – Member 2016 - Present

MoneyThink CMU – Community Mentor 2015 – 2017

- Promotes financial literacy at low-income high schools in Pittsburgh.