

Stephen Clark

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Education

Carnegie Mellon University

B.S. in Computer Science
May 2019 | GPA: 3.45

Skills

Programming

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

Certifications

- Oracle Certified Associate
- Java SE 7 Programmer

Awards

Build-18 Award 2017

Dean's List Fall 2016

Most Amusing App 2016

Projects

Build-18 Robot 2017

Worked on a team of four to create a self-balancing spherical BB8 robot replica.

SPIRIT Alumni DB 2016

Created career network for club members to reach out to alumni.

reefbreak.co 2016

Online polling website to begin experimenting with browser fingerprinting and cache control.

More online at www.sclark.io/

Experience

15-213 Introduction to Computer Systems - TA Spring 2017

- 15-213 is an undergraduate and master's course with 450+ students.
- Led recitations of 20 students and updated labs to improve quality.
- Member of team responsible for improving course infrastructure.
- Responsible for midterm and final questions and the review process.
- Other TA responsibilities, including grading and holding office hours.

Dassault Systèmes - 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.
- As a scrum team member, I designed and implemented a system to reports on performance and scalability of the Pipeline Pilot API.

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.
- Devised strategies for automated deployment of virtual machines and core intranet critical to STEPfwd system.

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.
- Implemented weather normalization models and US county map division routines into current version of primary web application.
- Responsible for development of an internal Google Scripts tool to automate operational procedures such as utility data sanity checks.

UCSD Supercomputer Center - Research Intern Summer 2013

- Refactored Fortran code to integrate both AMBER MD and QChem, a quantum chemistry package supporting many quantum structures.
- Automated benchmarks to track improvements made to the AMBER MD.

Activities

Spring Carnival Committee - Executive Board 2015 - Present

- Committee responsible for planning and running CMU's Spring Carnival, the largest on-campus event for students and alumni.

MoneyThink CMU - Mentor 2016 - Present

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

Association for Computing Machinery - Member 2016 - Present