Alec Rosenbaum

11070 Resort Rd, Ste 409

Ellicott City, MD, 21042

alec@rosenbaum.io

(484) 250-4418

Github: alecrosenbaum

alec.rosenbaum.io/resume

EDUCATION

Swanson School of Engineering, **University of Pittsburgh**; Graduated Dec 2017

Major: Computer Engineering – **GPA: 3.72 – Major GPA: 3.98**

Awarded Honor Student Designation within Swanson School

SKILLS

Languages:

Python, Javascript, SQL, HTML/CSS (experienced); Java (proficient); C, C++ (prior exposure)

Software Tools:

Django, Git/Github, Docker, pytest, Selenium, Linters, Ansible, Jupyter/iPython, Flask, Numpy, matplotlib

EXPERIENCE

drchrono; Cloud-based EHR and RCM; Hunt Valley, MD   **Jan 2018 - Present**

Full-Stack Software Engineer (Python, Django, Docker, AngularJS, JavaScript)

- Responsible for new feature design, prototyping, development, testing, optimization, and deployment
- Converted stack to use docker containers, orchestrated integration and end to end testing in CircleCI
- Developed internal GraphQL API to simplify the frontend-backend interface
- Developed internal CCDA serialization and parsing framework to meet Meaningful Use 2015 Standards
- Refactored backend code to simplify models, reducing bugs through design and inline documentation

Formlabs; 3D Printer Design and Manufacture; Somerville, MA   **May 2017 - August 2017**

Software Engineering Intern (Python, Django, Ansible)

- Improved automated calibration software to reduce manufacture time by over 5 minutes.
- Enabled enhanced data collection and wrote a web-based dashboard for manufacturing analytics.
- Analyzed manufacturing data and correlated defects, software changes, device usage, and line operators.

change2target; Hybrid Consulting; Greer, SC   **August 2016 - April 2017**

Engineering Data Analyst Co-op; member of team developing web-based data analysis software

- Invited to continue BMW Manufacturing Co-op as a remote, part-time team-member.
- Designed and developed Django-based automated reporting and analytics software.

BMW Manufacturing, Greer, SC   **January - May 2015, January - August 2016**

Engineering Data Analyst Co-op; member of team developing web-based data analysis software

- Designed and developed Django-based automated reporting and analytics software.
- Solved systems-level problems to increase reliability, maintainability, and speed.
- Wrote an automated daily reporting framework using Python.

National University of Singapore Research Assistant, Singapore   **Summer 2015**

Research Assistant; member of team developing nerve-based neuro-prosthetics

- Implemented a UART communication protocol for custom hardware used in neuroprosthetics using C.
- Lab developed custom hardware and performed testing on-site using primates.

DEKA Research and Development Corporation, Manchester, NH   **Summer 2014**

Computer Engineering Intern; member of team developing software for clients in medical device industry

- Developed automated tests for android-based medical device controller prior to FDA approval submission.
- Created and maintained detailed documentation for all development goals and software changes.