Charles McTurland

Software Engineer

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New York, NY
LinkedIn

EDUCATION

SEPT 2008 - APR 2012

B.S. Computer Science

University of Pittsburgh

Pittsburgh, PA

SKILLS

- Python (Django)
- Javascript (NodeJS ReactJS, jQuery)
- SQL (MySQL, PostgreSQL, NoSQL)
- HTML5/CSS
- AWS
- Unix, Git

Projects

Poker Simulation

- Built a full-stack web app to allow users to simulate and visualize outcomes of poker hands against opponents of different play styles using open source cards.js on the front-end.
- Utilized sci-kit learn in Python to simulate possible outcomes under different scenarios that the user chose.

WORK EXPERIENCE

JAN 2015- Current

Software Engineer

Embark, **New York, NY**

- Worked with product managers to re-architect a multi-page web app into a single page web-app, boosting yearly revenue by $1.4M.
- Constructed the logic for a streamlined ad-serving platform that scaled to our 35M users, which improved the page speed by 15% after implementation.
- Tested software for bugs and operating speed, fixing bugs and documenting processes to increase efficiency by 18%.
- Iterated platform for college admissions, collaborating with a group of 4 engineers to create features across the software.

APR 2012 - JAN 2015

Software Engineer

MarketSmart, **Washington, DC**

- Built RESTful APIs that served data to the JavaScript front-end based on dynamically chosen user inputs that handled over 500,000 concurrent users.
- Built internal tool using NodeJS and Pupeteer.js to automate QA and monitoring of donor-facing web app, which improved CTR by 3%.
- Reviewed code and conducted testing for 3 additional features on donor-facing web app that increased contributions by 12%.

APR 2011 - MARCH 2012

Software Engineer Intern

Marketing Science Company, **Pittsburgh, PA**

- Partnered with a developer to implement RESTful APIs in Django, enabling analytics team to increase reporting speed by 24%.
- Using Selenium I built out a unit testing infrastructure for a client application that reduced the number of bugs reported by the client by 11% month over month.