Braeden Smith

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EDUCATION

University of Illinois at Urbana-Champaign - Computer Engineering - GPA 3.54 | May 2022

- **Relevant Coursework:** Computer Systems Programming & Data Structures and Algorithms

EXPERIENCE

Castle - Software Engineering Intern - San Francisco, CA | Summer 2019

- Developed a full stack web app and a sophisticated Node.js serverless function which integrated to create an undetectable and scalable credential stuffing demo
  - Used in live PoC demos to solidify $200,000+ in sales
- Created several Ruby tools which interfaced with sales APIs to collate data and verify accuracy of leads so a sales team can effectively target potential customers
  - Refactored a large existing codebase, condensing thousands of lines of code
  - Parallelized and increased speed by >50x for web scraping task involving ~10,000 sites
- Contributed to an Angular project built for sales demos, which displayed Castle's functionality including API calls, a simulated browser flow, email view, and device switcher in a single page application

CAST Software - Software Engineering Intern - New York City, NY | Summer 2018

- Developed a Jenkins plugin in Java to run CAST Highlight analysis after successful CI/CD to easily integrate static code analysis and upload into a build process
- Programmatically added 1500+ library/framework identifiers and associated information for Python, PHP, C#/.NET and Java, so CAST Highlight could recognize many popular libraries
- Introduced dozens of “Cloud Readiness” patterns for Python and PHP in CAST Highlight

Zenabi Data - Software Engineering Intern - Westport, CT | Spring 2018

- Worked heavily in Python using web scraping + various APIs to amass datasets for ML and NLP
- Used Markov Chains and TensorFlow to create simple text generating models

SKILLS

Languages - JavaScript/TypeScript, Python, Ruby, Java, Bash, C and HTML5+CSS3+SASS

Frameworks/Libraries - Node.js, Express.js, Angular, Socket.IO, Puppeteer, Selenium, jQuery

Technologies - Linux, Git, Github, Heroku, AWS, Kibana, and Google Cloud Platform

Awards - IBM Vault 2018 Finalist, National AP Scholar, & bug bounty recipient for several web exploits

PERSONAL PROJECTS

PowerGPA - Chrome extension which calculates and displays a GPA in Powerschool, with 1500 MAU (Javascript)

WebPixelMap - Take an arbitrary video and display it across phones in stadiums & concerts -- using each connected device as a single pixel in mapped playback. (Node.js, Socket.io, Python, FFMPEG)

MovieMagic - Python script to combine slices of movie frames into a beautiful representative picture