Braeden Smith

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EDUCATION

University of Illinois at Urbana-Champaign | **Computer Engineering** **GPA 3.55** | Dec 2021

- **Current Experience:** Course Assistant for Data Structures and Algorithms - CS 225 (2 semesters)
- **Past Experience:** Course Assistant for Introduction to Electronics - ECE 110 (2 semesters)

SKILLS

Languages JavaScript/TypeScript, Python, Ruby, Java, C++, C
Libraries Express.js, React.js, Socket.io, Sharp, TensorFlow.js, Puppeteer

EXPERIENCE

Microsoft | Incoming Software Engineering Intern **Remote (Seattle, WA)** | Summer 2021

Vistaprint | Software Engineering Intern **Remote (Boston, MA)** | Summer 2020

- Worked on multiple React.js, Redux + Gatsby front-end applications — added “pickup points” as a shipping option, improved developer experience and introduced features to a shared React component
- Contributed to multiple Java (Spring Boot) microservices centered around order management — added bug fixes, metric collection and unit testing
- Added event monitoring to front-end/back-end services and setup corresponding New Relic dashboards

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

- Developed a full stack web app and a serverless function to perform large credential stuffing demos
  - Used in live demos to solidify $200,000+ in sales with Datadog and more
- Created several Ruby tools which interfaced with sales APIs to collate data and verify accuracy of leads
  - Refactored/rewrote 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 for product demos, which displayed Castle's functionality in a SPA

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

- Developed a Jenkins plugin in Java to run after successful CI/CD which served to easily integrate CAST’s static code analysis and result upload in the 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

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

- Worked heavily in Python using Selenium and various APIs to amass datasets for ML and NLP
- Used TensorFlow and Markov chains to create simple text generating models

PROJECTS

sms-sentiment (HackIllinois 2020) - Full stack web application which parses uploaded SMS conversations and plots sentiment over time with TensorFlow.js or Google's Natural Language API. *(Express.js, TF.js, Chart.js)*

Pictionary - A minimal real-time drawing app — generate words, create rooms, customize your brush — draw on a shared canvas with a unique game link. *(Express.js, WebSockets, TypeScript, GCP)*

WebPixelMap (HackIllinois 2019) - take an arbitrary video and display it across phones in stadiums & concerts — using each connected device as a single pixel in mapped playback. *(Python, Node.js, Socket.io, FFMPEG)*

Disregard (Other projects):

Poker-stream - Reads RFID poker cards in real-time for use in live streaming — reading serial port stream + a web server that displays card values on HTML canvas for stream overlay (Express.js, Socket.io, C)

Gif-Decoder - A .GIF decoder written for the Cyclone IV FPGA for an ECE385 final project (C and SystemVerilog)

fast-img - Website and additional Chrome extension, which lean on fast data center internet to dramatically increase image access speed, by serving scaled images based on URL (Express.js, Sharp, Heroku)