

Education

Washington University in St. Louis

August 2014 - May 2018

- Bachelor of Science, Computer Science, Cumulative GPA 3.1
- Relevant Coursework: Rapid Prototyping & Development, Software Engineering Workshop, Data Structures & Algorithms, Big Data & Cloud Computing, Engineering Design, Mobile Development

Work Experience

DTN

June 2018 - November 2018

Full Stack Software Engineer Intern

- Led the development of an administrative tool in Node.js/Express and ReactJS resulting in increased efficiency in managing customers and developers across all company products
- Set up multiple microservices with AWS (Elastic Beanstalk, Fargate) and Docker
- Assisted in development of a REST API in PHP and Zend Expressive for a mobile app that manages grain products and uses DynamoDB to store commodity data
- Automated critical business workflow by using Bash and Python to build and deploy apps using services such as Elastic Beanstalk and Docker

Washington University in St. Louis

June 2016 - August 2016

Data Engineer Intern

- Collected and organized data on partner university tech transfer programs to identify areas of improvement within the tech transfer processes between universities
- Implemented data mining software with Python to collect drug and clinical trial data used to develop a R&D database with MySQL for the medical school
- Created histograms with Python visualization libraries to display how tech transfer programs allocate funding
- Discussed findings with Associate Provost to help plan the improvement of tech transfer between partner universities

Technical Skills

Front End: JavaScript, ReactJS, AngularJS, jQuery, HTML5, CSS3, Bootstrap

Back End: Node.js, Express, PHP, Zend Expressive, Python, Django, Java

Datastores: MySQL, MongoDB, DynamoDB

Other Technologies: Amazon Web Services, Docker, Hadoop, Bash, Git, Jira

Technical Projects & Experience

ChiPy Mentorship: Currently working alongside a mentor to continue advancing my skills in Python/Django through personal projects and targeted exercises.

GlobalHack VI (Semi-Finalist): Worked with team to develop Python/Django web app that tracks homeless shelter resources in St. Louis. SMS component developed with Twilio and mapping done using Google Maps API.

Rubik's Cube Solver: Worked with team to develop Rubik's Cube solving machine using Python's OpenCV library.

Waukegan Tech Institute Founder: Partnered with Waukegan Public Schools to teach high school students how to code. Led team in creating Python-based curriculum and set long-term goals for the program.

Data Structures & Algorithms TA: Assisted professor in explaining concepts, grading, and developing curriculum.