

Education

Master's of Science, Computer Science (3.9 GPA)
Bachelor's of Science, Computer Science (3.93 GPA)

University of Cincinnati - Graduating April 2020

Tools and Languages

C#, Go, Java, Spring Boot, Python | Keras, TensorFlow, Neural Networks | Javascript, Vue.js | Docker, Jenkins, Drone | RabbitMQ, PostgreSQL, Redis | AWS Certified Cloud Practitioner

Work Experience

Convolutional Neural Network (CNN) Researcher University of Cincinnati (Fall 2018 - Present)

- Developed deep CNN to **predict risk of back injury (90.6% accuracy)** in lifting objects using sensor-based motion data
- Submitted findings to PLOS ONE; further info and preprint available at arxiv.org/abs/2003.09521

Cybersecurity Intern GE Aviation (Summer 2019 - Fall 2019)

- Architected a **CI/CD platform (Drone)** to automate deployment processes, **saving over 15 minutes per build**
- Created and customized several **Docker** images, managed a private Docker registry

Full Stack Development Intern GE Aviation (Winter 2018 - Spring 2019)

- Developed a **data collaboration platform** for hundreds of parts suppliers to promote efficient supply chain processes
- Created features for a **customer-facing parts ordering platform with billions in sales** in **Java Spring Boot, Vue.js**

Platform Automation Intern GE Aviation (Summer 2018 - Fall 2018)

- Rearchitected an **automated AWS cloud infrastructure provisioner** for team-monitored applications
- Integrated monitoring into Microsoft Teams through **AWS Lambda** to enable cost-efficient automated alerts

Application Development Intern Great American Insurance (Summer 2016 - Summer 2018)

- Contributed features to a client-facing web application for enrolling specialty assets in insurance policies
- **Decreased search time for policy lookup 10x** using microservice architecture and message queuing

Frontend Web Development Intern University of Cincinnati IT (Fall 2015 - Spring 2016)

- Redesigned website with **responsive design** and **dynamic content** to modernize a UC dept's public presence

Leadership

Sponsorship Lead (2018), Hackathon Organizer RevolutionUC (Fall 2017 - Present)

- Recruited **15 corporate sponsors** and planned **300+ attendance 24-hour hackathon** (revolutionuc.com)
- Currently the largest and **most successful university hackathon** in Cincinnati

Co-Founder MakeUC (Fall 2018)

- Founded a **100 student 12-hour hardware-software hackathon** (makeuc.io) for UC computing majors in fall 2018.

Vice President ACM@UC (Spring 2018 - Spring 2019)

- Organized educational meetings for local chapter, including sessions from local companies

Projects

Spotkov - Spotify Playlist Generator (located at spotkov.crouton.io)

- Created Markov chains with the listener's play history to create great playlists. Written with Go and Redis

xp-bot - Discord XP Tracker

- Discord bot written with Go and MongoDB to track XP of users on a server and present graphs displaying their progress.