

Michael Radey

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EDUCATION

The Ohio State University, Columbus, OH

B.S. Computer Science and Engineering

- Alpha Lambda Delta and Phi Eta Sigma Honor Society Member

SKILLS

Languages and Frameworks

- Java, Python, JavaScript, C, C++, SQL, MongoDB
- React, React Native, Express, Spring, Flask, Git, Play, AWS, Heroku

WORK EXPERIENCE

Software Engineer | *Armaments Research Company*, Washington DC July 2021 – Current

- Lead real time project optimizing kafka to ingest upwards of 750 messages per second and output in realtime
- Created inhouse oauth solution using individual user based RBAC to support a fully customizable access control
- Designed fully functional REST microservice architecture on AWS now used by 2 government agencies
- Researched and integrated use Apache Age to manage military hierarchical structures easily in codebase

Software Engineer | *JPMorgan Chase & Co.*, Columbus, Ohio July 2019 – July 2021

- Redesigned mainframe procedural COBOL code to use Java Spring microservices, Kafka, and Oracle DB
- Automated comparison reports to efficiently find all discrepancies in 2 files with 5 million data records
- Streamlined weekend government report generation to on average take 1.5 hours instead of 10 hours
- Introduced React app to mostly automate operations tasks reducing manual efforts from 4 hours to 5 minutes

Data Analyst Intern | *State Auto*, Columbus, Ohio January 2019 – July 2019

- Analyzed agency data to determine sales strategies that put agents in best position to succeed based on clientele
- Applied GMM clustering on agent and sales data to group over 80,000 agencies into 4 distinct personas

Software Consulting LLC Founder | *Praemisit*, Columbus, Ohio May 2018 – May 2019

- Founded a startup aimed at integrating machine learning techniques in mobile applications
- Raised \$2,000 from Ohio State University for developer licenses and software to design applications
- Pioneered a mobile application using React Native and Google Firebase to show people's stories from QR codes

PROJECTS

Chess AI November 2020 – January 2021

- Developed a React app with Express and SocketIO to allow multiplayer gameplay
- Designed chess AI using Minimax algorithm and a heuristic based on piece square evaluation
- Implemented AI in C++ using Bitboard to improve memory usage and speed to search deeper depth of tree

Industrial Badger App January 2020 – April 2020

- Produced Android app using Retrofit deployable to VR headset to allow users to see data while performing tasks
- Leveraged Dialogflow and Elasticsearch to query 150 textbooks for answers to complex engineering questions

Indoor Location Tracker September 2019 – December 2019

- Designed Android mobile application to model building layout to track position of user indoors
- Predicted room location with 99.7% accuracy using WiFi signal strengths in a multivariable logistic regression

Recipe Service June 2021 – Current

- Created VUE app deployed on Heroku with 2 other team members to share and manage recipes on a dashboard
- Developed a NodeJs backend connected with mongo db and swagger to allow frontend services to manage data