

Omar Shoura

Boston, MA || Available : Summer 2024

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Education

Northeastern University, Khoury College of Computer Science - Boston, MA Sep 2020 – Present
Candidate for a Bachelor of Science in Computer Science Graduation: Apr 2024

- **GPA: 3.9 / 4.0** - Dean's List
- **Coursework:** Artificial Intelligence, Machine Learning I, Software Engineering, Programming Languages, Foundation of Data Science, Object-Oriented Design, Algorithms and Data Structures, Cybersecurity I
- **Islamic Society of Northeastern [Vice President]:** With a team of 5, planned 16-team charity basketball tournament that attracted 300+ spectators and raised nearly \$5k for local charities.
- **Teaching Assistant [Into to CS & OOD]:** Directed 30+ student labs on basic to advanced CS paradigms, orchestrated 200+ participant review sessions, and offered individualized academic assistance.

Relevant Experience

Reprise – Remote Aug 2023 – Dec 2023
[Incoming] Full Stack Software Engineer Coop

- Incoming Full Stack Software Engineer with React and Django tech stack

Capital One: Cloud Maturity – Mclean, VA Jun 2023 – Aug 2023
Software Engineer Intern

- Designed and implemented an engine to determine AWS account security across organization to ensure safety, compliance, performance, and cost-effectiveness; Used Python, numpy, and boto3

Liberty Mutual Insurance: Office of Data Science – Boston, MA. Jul 2022 – Dec 2022
Machine Learning Engineer Coop

- Redesigned an insurance modeling library in python, to reduce memory usage, standardize interfaces by following Sklearn standards, and improve documentation consistency; 12+ engineers use library
- Accelerated deployment process by 85% by designing robust, well-tested data transformers for underwriting models, reducing deployment from 3 months to 2 weeks; Received very positive feedback after presenting
- Explored new orchestration tool to aggregate 3 models and presented findings; currently deployed and used

Generate: Student led Product Development Studio – Boston, MA Dec 2021 – Apr 2022
Software Engineer

- Built modern user interface for a home screen and explore page in React closely following Figma designs
- Set up authentication process with Django back-end, Spotify user integration, Redux for state management
- Collaborated with 5 engineers to build React and Django based prototype web app in 4 months for customer

Technical Skills

Languages	Python, Java, JavaScript, TypeScript, Lisp, HTML, CSS, C++, Swift, R, MATLAB
Frameworks	Pandas, NumPy, Sklearn, Tensorflow, Pytest, OpenCV, Node.js, React.js, React Native, Boto3, Redux
Tools	MLflow, Databricks, Datadog, AWS, RESTful API's, Git, SQL, VIM, Bash, XCode, Eclipse, VSCode
Certifications	AWS Cloud Practitioner, AWS Associate Developer (IP)

Projects (Refer to [GitHub](https://github.com) for more)

Collaboration Features in Virtual Meeting Platform – Twilio, Socket.io, React Canvas Apr 2023

- Planned, designed, and successfully implemented a screensharing and whiteboarding feature with a team of 4 into an opensource collaborative meeting space called covey.town.

Custom Facial Recognition Model – TensorFlow, OpenCV, CNN Dec 2022

- Developed a custom facial recognition model using a Siamese Convolutional Neural Net, capable of identifying whether two faces belong to the same person without previous examples following [paper](#)
- Built a Streamlit dashboard with a facial segmentation pipeline to determine if I am in the uploaded image