

Deeshan Wassan

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EDUCATION

Master of Science in Computer Engineering

New York University • New York, NY • 2022

Bachelor of Science in Computer Information Systems

Minor in Operations Management • Drexel University • Philadelphia, PA • 2019 • 3.6

EXPERIENCE

Software Engineer Intern

Amazon Web Services (AWS)

May 2022 – August 2022, Seattle, WA

- Developed tools to automate editing part information to decrease repair time at 250+ AWS data centers worldwide.
- Reduced the time required for each update from 20 hours to a few seconds by developing a React/Redux UI.
- Connected the UI to the team's Parts Compatibility Service (PACS), enabling 5000+ technicians to author part policies.
- Enabled cross team collaboration by creating a Java client and connecting PACS to a central management website using AWS.
- Documented low-level and high-level design, requirements, and system architecture for the new tool.

Software Engineer

Connectify

August 2019 – June 2021, Philadelphia, PA

- Developed and released an Android VPN app with currently over 100,000 downloads (EdgeWise Connect).
- Achieved a 60% increase in revenue through in-app purchases by adding A/B tests on the Google Play Store.
- Iteratively developed new features for the Angular frontend for Speedify, an app with over 10 million downloads.
- Enhanced VPN usage statistics and added in-app brags that led to a 20% increase in user retention.
- Implemented UI components such as real time livestream detection, server selection, and in-app speed test.
- Created white-labeled Android apps for external clients that implemented channel-bonding VPN capabilities.
- Collaborated with the design lead to rapidly implement features based on Figma prototypes during biweekly sprints.

Full Stack Software Engineer Intern

Brandywine Global Investment Management

April 2017 – April 2019, Philadelphia, PA

- Contributed 40% of all code changes on GitHub towards a React PWA to simplify trade reconciliation.
- Reworked existing C# ASP.NET APIs to retrieve data from Access MDBs and connected it to a new React front-end.
- Collaborated with business stakeholders to gather requirements and delivered results on time.
- Worked with the Director of IT to establish UI standards and best practices on technologies and frameworks.
- Developed, tested, provided support for, and deployed over 100 Perl jobs and SQL code for company-wide upgrade.
- Wrote data services and applications in C# to enhance productivity by replacing 20-year-old Microsoft Access.

SKILLS

Programming: Python, Java, C#, Perl, SQL

Web Development: JavaScript, TypeScript, React, Redux, Angular, Node.js

Mobile: Android Native (Java), React Native

PROJECTS

Detect Mask Type

<https://www.detectmask.com> • January 2022 – January 2022

- Trained a model using TeachableMachine with 50 epochs, a batch size of 16 and 0.001 learning rate to determine mask type.
- Created 3 different classes for possible images – No Mask, Cloth Mask, and Medical Mask, trained using 500 samples.
- Developed a proof of concept that uses this model and requests webcam permissions to determine the user's current mask.
- Hosted and deployed a React app using AWS Amplify and set up CI/CD.

Neural Networks for Music Classification

New York University • November 2021 – November 2021

- Extracted features from audio samples for machine learning tasks such as speech recognition and classification.
- Built a simple neural network for music classification with 256 hidden units and sigmoid activation.
- Optimized the learning rate of the neural network to over 99% accuracy by training the model for 20 epochs.