

Deeshan Wassan

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EXPERIENCE

Software Engineer Intern

Amazon Web Services (AWS)

May 2022 - August 2022, Seattle, WA

- Developed tools to edit part policy information (stored as JSON) that determines the best practices when replacing faulty parts in a server. Led to a decrease in repair time at 250+ AWS data centers worldwide.
- Reduced the time required for editing policies from 20 hours to seconds by developing a React/Redux UI on MyDayWebsite, a cross-team central management website connected to DynamoDB.
- Connected the UI to the team's Parts Compatibility Service (PACS), granting access to 5000+ technicians in addition to admin credentialed employees to author part policies.
- Improved cross team collaboration by creating a Java client and connecting PACS to MyDayWebsite using AWS IAM services, enabling all teams within the Data Center Automation org to access the new tool.
- 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 introducing A/B testing to the flagship app (Speedify).
- Iteratively developed new features for the Angular frontend for Speedify, an app with over 10 million downloads. Implemented UI components such as real time livestream detection, server selection, and an in-app speed test.
- Enhanced VPN usage statistics and added in-app brags to showcase Speedify's benefits to the user through detailed statistics. Led to a 20% increase in user retention across platforms.
- 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 enable traders across the firm to access detailed, historical trade reconciliation data. Helped move towards the goal of sunseting using over 20 year old Access files.
- Reworked existing C# ASP.NET APIs to retrieve data from Access MDBs and connected it to the 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.

EDUCATION

Master of Science in Computer Engineering

New York University • New York, NY • Dec 2022

Bachelor of Science in Computer Information Systems

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

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C#, SQL, Node.js

Frameworks: React, Redux, Angular, 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.