

Deeshan Wassan

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EXPERIENCE

Software Engineer Intern

Amazon Web Services (AWS)

May 2022 - August 2022, Seattle, WA

- Developed tools to manage part replacement policies for data center part repairs, resulting in faster repair times at over 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) to allow access for 5000+ technicians and admin-credentialed employees to create and manage 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, providing a clear understanding of the system, and wrote comprehensive unit tests with over 95% coverage to ensure functionality.

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).
- Drove user engagement by introducing new features such as real-time livestream detection, server selection, and an in-app speed test to the Angular frontend of Speedify, an app with over 10 million downloads.
- Enhanced VPN usage statistics and added in-app brags to showcase the benefits of using Speedify, which led to an improvement in user retention by 20% 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, helping to achieve the goal of sunsetting using over 20 year old Access files.
- Reworked existing C# ASP.NET APIs to retrieve data from Access MDBs and seamlessly connected it to the new React front-end, improving data access across the firm.
- 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.

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.