Deeshan Wassan

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EDUCATION

Master of Science in Computer Engineering
New York University · New York, NY · 2023

Bachelor of Science in Computer Information Systems
Minor in Operations Management · Drexel University · Philadelphia, PA · 2019 · 3.6

EXPERIENCE

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 GitHlub 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, React, Angular, Node.js
Mobile: Android Native (Java), React Native
Source Control: GitHub, Bitbucket

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.

Social Sports App – Kaptilo
Drexel University · September 2017 – June 2018
· Set up complete back-end infrastructure for the app including IIS Server and MS SQL Server.
· Developed an API in NodeJS from scratch to handle calls to the backend.
· Contributed over 70% of all code changes towards developing a cross platform frontend in Ionic and Angular.