

Nishanth Moolam

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github.com/Nishanth-Moolam

I'm a highly motivated software engineer with a passion for problem solving, continuous learning, and adding value to users. Outside of work, I have a keen interest in exploring new technologies to create projects I'm passionate about, as well as guitar playing and (human) language learning, which help me foster a creative mindset.

SKILLS

Languages: Javascript, Typescript, Python, Java

Frameworks/Libraries: Angular, React, Flask, Spring Boot, numpy, pandas, matplotlib, scipy

Databases: SQL, MongoDB, Postgresql

Cloud: AWS S3, Athena, Lambda, ECS, API Gateway

Version Control: Git, Github

Testing: Karma, Jasmine

Methodologies: Object Oriented Programming, Agile, Scrum, CI/CD, Microservices, Datastructures & Algorithms

Other: Node, Docker, Linux, OAuth

EXPERIENCE

Frontend Software Developer, Virtusa, Dec 2020 - Present - Stack: Angular | Typescript | Python | Flask | MSSQL

- Developed a Client Portfolio Business Banking Application, that allows relationship managers to access all relevant information on their clients, including their overdrafts, retention, cross/up-sell potential, etc.
- Collaborated with product owners, UX, QA testers, and other developers using Agile methodology and Scrum to plan feature development based on business requirements.
- Implemented a hierarchy of roles and permissions for different users of the applications, such as relationship managers, customer service officers, and admin.
- Migrated the application to be a mobile responsive.
- Automated workflows for data between applications and batch processes using cross platform job scheduling with coordination from external teams.
- Optimized unit test coverage of the application using Karma and Jasmine to cover 90%+ of the codebase, significantly improving code quality and reducing the reported bugs per sprint by 30%.

FullStack Development, Self Employed, June 2020 - Dec 2020

Language Learning with Nick Website - Stack: Angular | Typescript | Python | Flask | MongoDB

- Designed and built a Full Stack Application from conception to deployment. Created a website that's designed to be an interactive tool to help users learn languages. View it on: <https://languagelearningwithnick.com>
- Architected Cloud Infrastructure using AWS ECS, API Gateway and EC2 to publicly host the application.
- Implemented a fully automated CI/CD Pipeline using Github Actions, that deploys to cloud infrastructure.
- Created an SSL certificate and implemented OAuth login.

Interactive Chess Game Application - Stack: Angular | Typescript | Python | AWS Lambda

- Utilized Object Oriented Programming and SOLID Principles to create a chess game application. View it [here](#)
- Designed with Serverless Cloud Infrastructure using AWS API Gateway, Lambda, and S3 Static Web Hosting.
- Developed logic that allows the application to find all possible moves for any chess piece on the board.

Customer Service Representative, Indigo, Sept 2018 - Aug 2019

- Provided exceptional customer service both in person and on the phone, ensuring a positive and personalized experience.
- Assisted customers with inquiries, recommendations, and locating specific books or products, resulting in increased customer satisfaction.

Tutor/Mentor, Rising Scholars of Canada, Jan 2018 - June 2018

- Led a weekly group mentorship, working with multiple students, helping them further their understanding in STEM topics.
- Adapted a curriculum based on core topics in science and math, as well as students' schoolwork.

EDUCATION & CERTIFICATIONS

University of Waterloo, Bachelors of Science, Honours Physics, Sept 2015 - June 2020

Various Course and Lab Work - Stack: Python | numpy | pandas | matplotlib

- Used Data Processing and Visualization tools in Python to perform analysis on real data collected in a laboratory setting. Experimental data analysis includes voltage signal processing, absorption and emission spectrum analysis, NMR spectroscopy.
- Used numerical methods to perform physics simulations. This includes particle in box simulations, 2 state ferromagnet Monte Carlo simulation, numerically solving the Schrodinger equation for a quantum particle.

AWS Certification Developer

AWS Certification Solutions Architect