MAAN PATEL

University Of Waterloo | 4th Year Engineer

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Education

Management Engineering - University of Waterloo   Sept 2018 - Apr 2024

Courses: Data Structures & Algorithms, Databases & Software Design, Search Engines, Advanced Probability & Statistics, Linear Algebra, Advanced Calculus, Stochastic Models, Introduction to Machine Learning

Skills

Languages	C#, Python, JavaScript, TypeScript, SQL, Java, Ruby, R, XML, XAML
Web	React, Node.js, Django, jQuery, Ruby on Rails, Express.js, Bootstrap, HTML5, CSS, SASS
Technologies	.NET, Azure, Git, GitLab, Terraform, Kafka, Unix, JUnit, xUnit.net, Android Studio, XCode, VS Studio
Databases	MySQL, MongoDB, PostgreSQL, SQLite, SQL Server

Experience

Software Developer Intern | *Ceridian Dayforce*   Jan 2023 – May 2023

- Reduced start-up times by 20% to improve application performance using Azure App Insights and generating timed logs in .NET back-end to identify and resolve the bottlenecks with config files.
- Fixed 6 critical front-end bugs using React, TypeScript, JavaScript, and HTML/CSS in time for the release.
- Used Terraform to provision private endpoints for storage accounts in infrastructure.
- Consumed and produced 8 Kafka subscriber events to/from various Kafka topics using Kafka Connect and local libraries for data integration and stream processing with a cross-functional team.

Full-Stack Developer Intern | *Triyo (TS Analytics)*   May 2022 – Sep 2022

- Worked in a start-up environment to create over 60 Pull Requests and solve over a dozen bugs, tasks, and user stories by working closely with the product, design, and dev team under tight deadlines.
- Optimized core feature's loading time by 45% through implementing Lazy Loading with React Hooks, migrating MVC to Entity Framework using .NET with C#, and reducing calls to the database through caching.
- Created SQL scripts to import over 25,000 records to production database by using DML statements.

Software/Mobile Developer Intern | *Prometheusgroup*   Sep 2021 – Dec 2021

- Wrote production code on Windows, Android, and iOS platforms for clients such as Nestle, Tarmac, and Messer to provide ERP solutions integrated with SAP for over 20,000 users.
- Coded with Java and XML in Android Studio, C# and XAML in Windows Visual Studio, C and C++ in XCode, and ABAB in SAP to deliver 4 new features and fix more than 15 bugs.
- Helped push back software delivery dates by 2 weeks for several customers by working closely with an amazing team in a Kanban Agile environment using Scrum and Jira to deliver builds.

Digital Marketing Intern | *CIS Office Plus*   Sep 2020 – Dec 2020

- Improved SEO scores by 35% and significantly reduced loading times by suggesting/adding site metadata, XML sitemaps, minified JS/CSS files, async functions, and minimized HTTP requests to existing suite of e-commerce websites.
- Managed and updated several e-commerce websites written in JavaScript, PHP, HTML, & CSS using technologies such as jQuery, Bootstrap and more to save over month of delivery dates.

IT Network and Security Support Analyst Intern | *AGF Investments*   Jan 2020 – Apr 2020

- Mitigated organizational risk vulnerability by 7% as a result of creating a Python script that detects CVE vulnerabilities for all software and webpages visited on a user's device.

- Presented project reports, vulnerabilities, and recommendations to senior IT heads in bi-weekly meetings.

IT Security Risk & Audit Analyst Intern │ *Toronto District School Board*   Apr 2019 – Sept 2019
- Fulfilled the organizational need for storing over 50,000 student/teacher information, IP addresses, TCP ports, and visited websites by creating an XML storage.
- Programmed in a sample workstation to do ethical hacking using SQL queries, testing security features, and monitoring network activities to expose over 15 critical threats, and 23 normal threats. Worked with the website team to fix vulnerabilities such as Cross-Site Scripting using JavaScript/DOM.

Projects

Automatic-Stock-Portfolio-Generator - Python, Django, React, REST API, SQLite, HTML/CSS   Feb 2021
- This app generates a stock portfolio from a user's Investment Capital, Time of Investment, and Risk Level. Users can also paper trade in real-time with $100,000 starting capital. (https://port-gen.herokuapp.com)

Wonders World - JavaScript, Node.js, Express, MongoDB, APIs, Async Functions, Password Hashing   Apr 2020
- Full Stack app made using JavaScript, Node.js (for backed), Express (for the web framework), MongoDB (for storing data such as users, locations, description, etc.), Password Hashing, Async JS (for requests), Error Handling Middlewares, and HTML/CSS & Bootstrap (for front-end). (https://wonders-world.herokuapp.com)