AADIT S MEHROTRA

BASc Systems Design Engineering from University of Waterloo

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EXPERIENCE

Associate Software Engineer - Capco
📅 Sept 2023 - Present   📍 Toronto, ON

- Transformed 3 existing API endpoints to a contract-first approach using Java and Spring Boot, enhancing modularity and aligning with microservices principles, resulting in improved scalability and maintenance efficiency. *Java, Spring, Yaml, SQL*
- Identified and remediated multiple security vulnerabilities using Prisma Cloud and VeraCode, leading to significant improvements in application security and quality by effectively reducing potential security breach risks.
- Developed a migration strategy from on-premise Jenkins to AWS Cloud, optimizing CI/CD pipelines for efficiency and scalability, resulting in streamlined deployments, reduced operational costs, and enhanced developer productivity.

Full-Stack Engineer - Capco
📅 May 2022 - August 2022   📍 Toronto, ON

- Restructured existing forms on the asset management SaaS platform by incorporating the semantic-core library to **increase processing speeds by 20%**. *Angular, Formly*
- **Automated 81 API test cases** to cover both positive and negative scenarios of the wealth management portal to achieve 90% test coverage. *Python*

Software Engineer - Thomson Reuters
📅 Sept 2021 - Dec 2021   📍 Waterloo, ON

- Investigated security and UI enhancements for an internal database querying portal by conducting multiple technical spikes to **reduce support tickets by 15%**. *SQL*
- Developed and redesigned the internal database querying portal **to increase usage by 30% and reduce production service tickets by 15%**. *ReactJs, C#*
- Re-structured existing authentication of the portal to use LDAP authentication service to increase security and **reduce database costs by 3%**. *C#, Azure*

Full-Stack Engineer - MCAP Financial Services
📅 Jan 2021 - April 2021   📍 Waterloo, ON

- Identified latencies in processing speed and UI design elements for the internal content management service utilizing **Selenium and Jest.** *VueJs, .Net, SQL*
- Increased visibility of API failures by implementing the SignalR library that provided qualitative feedback on the internal hedge management tool. *C#, .Net, SQL*
- Designed and Implemented a modern content management service that helped to **reduce production tickets by 7.5%**. *VueJs, .Net, SQL*
- Automated the deployment pipelines in Azure DevOps to send in real-time updates to the CMS site and produce analytics on releases. *Yaml, SQL, Powershell*
- Collaborated with QA Engineers to ensure the CMS service follows a test driven development approach by driving **unit test coverage to above 95%** for the client app.

Frontend Developer - Ontario Digital Service
📅 Sept 2019 - December 2019   📍 Waterloo, ON

- Developed and Implemented a web based notification service using third party apps to **reduce physical mail costs by 30%**. *ReactJs, Twillio, Firebase*
- **Increased search speeds by 10%** on the ServiceOntario location finder application redeveloping the front-end architecture. *ElasticSearchJs, VueJs, NodeJs*
- Reduced **database costs by 2.5 %** by migrating the mock data for the prototypes to the cloud and hosting the application for user testing. *Google Cloud, Firebase*

SKILLS

Languages

`Java` `C#` `Python` `SQL` `JavaScript`

Frameworks

`Springboot` `Angular` `React` `NodeJS` `Vue` `MySQL` `ElasticSearchJs`

Services and Tools

`AWS Lambda` `AWS EC2` `Azure DevOps` `GCP - Firebase` `Jenkins` `Prisma Cloud` `MySQL` `Twillio` `GCP` `Git`

PROJECTS

- **Event-Based Rental Rate Predictor**
  Developed a pricing prediction model using **Python and JupyterNotebook** that consumed **20 years** of rent data to predict changes in price based on macro events such as pandemics, inflation, interest rate and various other factors to determine growth of prices over a 5 year horizon in the greater Toronto region with a **90% accuracy** for single-bedroom condos.

- **Relief @ Hack the Globe 2019 (Winner)**
  Developed a web-based and mobile dashboard using *ReacNative and ReactJs* that consumed large data sets of location data and supply quantities to optimize the supply chain for NGOs to collect non monetary donations that could potentially **reduce wastage in donated goods by at least 30%**.

- **MS Teams for Students @ ProdCon 2019 (Finalist)**
  Developed a light version of MS Teams by prioritizing features using a data-driven model to be more student focused while creating a seamless on-boarding experience for all stakeholders involved that would **increase user uptake by 10%**.

ACTIVITIES & CERTIFICATIONS

- **AI Engineer** - IBM Professional Certificate
- **Azure Fundamentals AZ-900** - Microsoft
- **SQL Data Reporting and Analysis** - LinkedIN Learning
- **PM: Building a Product Roadmap** - LinkedIN Learning