

SOHAIL MOHAMMAD

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SKILLS

Languages - Scala, Java, C++, Python, JavaScript, R, MIPS, HTML5, CSS, \LaTeX , JSON, YAML, SQL, XML

Frameworks & Tools

- **General:** Terraform, Kubernetes, Kafka, Spark, Docker, NodeJS, Express, Angular, ReactJS, Jenkins, SpringBoot, ReactJS, Git, Agile, J2EE, Core Java, ANT, Shell Script, Junit, IntelliJ

- **Scala Specific:** Cats, Cats Effect, fs2/fs2IO, Epimetheus

Databases - MongoDB, Firebase, PostgreSQL, AWS: Redshift, S3, DynamoDB

Operating Systems & Tools Linux, MacOS, Windows

Relevant Coursework - Advanced Algorithm Design & Analysis, Machine Learning, Neural Net Math

EXPERIENCE

Jack Henry

Cloud Application Software Engineer

November 2021 - Present

Plano, TX

- Designing and provisioning cloud infrastructure hosted on **AWS**, utilizing CI/CD automation techniques written in **Terraform**, as well as **CodePipeline** and **CloudFormation**, increasing availability by 9% and decreasing response times by 15%
- Developing immutable financial services written in **Scala** through a Functional Programming approach, integrating with functional libraries such as **Cats** and **Cats Effect**, to deploy in **Marathon** and **Kubernetes** environments
- Planning and facilitating team meetings, presenting developmental architecture plans to groups of 20+ managers and directors
- Servicing customer issues and production bugs on a routine support rotation and weekly firefighter duty, inspecting **Datadog**, **Grafana**, and **Honeycomb** to monitor and debug systems using queries and dashboards
- Maintaining repositories in Github, routinely performing security checks on repos with potential vulnerabilities and updating to the most recent versions, in the process correcting any downstream services that get affected by new versioning
- Creating support tools for our Tier2 Customer Support teams, often involving **ReactJS** and **Angular 7** components, which involves heavy **JavaScript** coding and formatting
- Mocking up and writing **Jenkins Pipelines** for our infrastructure team, improving our current workflow to require less hoops for developers while maintaining the quality of review
- Creating REST API's using **Springboot**, configured using **AWS API Gateway**

Capgemini

Full Stack/Data Engineer

May 2021 - February 2022

Plano, TX

- Designed and implemented highly scalable and robust **ETL pipelines** in **Python** using **AWS Glue**, **Lambda**, **Redshift**, and **Kafka** to process and analyze terabytes of data in near real-time, reducing processing time by 20%
- Leveraged **API Gateway** to build robust and secure **RESTful APIs** for seamless integration with third-party services, resulting in increased efficiency and decreased development time
- Cleaning and manipulating Data to prepare for validation and testing against internal proprietary machine learning models
- Interfacing with **Apache Spark** through **PySpark** to create our own Lambda's that fulfill ETL process requirements
- Creating and configuring **Docker** containers, orchestrated using **AWS EKS**, Amazon's Managed Kubernetes Service

Mediosis

Front-end Developer

December 2020 - May 2021

Dallas, TX

- Implemented interactive web-pages through full SDLC; designing in **Figma**, developing in **JavaScript (ReactJS)**, **HTML5**, and **CSS**, and deploying with **Express** and **MongoDB**, leading to a 12% increase in customer satisfaction
- Integrated openFDA's Drug API to retrieve special monograph information, allowing active cross-checking of drug-drug interactions against a patient's drug history

PROJECTS

Kiwi IRC Chatbot w/ API Integration

July 2020

- Created a chatbot using **OOP** Principles that connects to the Kiwi IRC Client with Pircbot in **Java**, allowing access to two integrated **API's**: OpenWeather & OfficialJokes

ACM Projects - Keep or Yeet

January 2020 - April 2020

- Created a mobile application that analyzes a picture and determines if it's recyclable or not; developed and optimized a CNN Computer Vision model using the **TensorFlow2** and **Keras Python** libraries, and then converted to a TensorFlow Lite model for integration with **Flutter**

AWARDS, HONORS, & CERTIFICATIONS

AWS Certified Developer - Associate (July 2021)

Alpha Lambda Mu - National Director of Programs and Branding

EDUCATION

Texas A&M University - Corpus Christi

Corpus Christi, TX

Master of Business Administration, Finance Concentration

January 2023 – May 2024

University of Texas at Dallas

Dallas, TX

Bachelors of Science in Cognitive Science (Specialization in CS & Neuroscience)

August 2016 – May 2021

Academic Excellence Scholarship, Distinction Award