Meena Gopalakrishnan

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EDUCATION

University of Waterloo   Waterloo, ON
BASc in Computer Engineering (Honours)   *Sept. 2023 – Jun 2028*

EXPERIENCE

Technical Systems Analyst Intern - Cloud Applications   Sep 2024 - Dec 2024
Royal Bank of Canada (RBC)   *Toronto, ON*
- Engineered resolution of **40+** critical incidents across **AWS** (**EC2, Cloudformation, Lambda, S3, VPC**) and **Azure** (**Kubernetes, Databricks, ACR, App Services**), tackling provisioning & performance
- Optimized and managed critical cloud infrastructure supporting **20,000+ users** across AWS/Azure, leveraging **Docker**, **Kubernetes**, ACR/ECR, Azure AD, Azure MI & AWS IAM
- Onboarded **20+** enterprise applications using **Terraform** and **Jenkins** for automation, configured **networking** policies, and enforced **security** compliance

Software Developer   Sep 2024 – Present
Google Developer Group   *Waterloo, ON*
- Developed responsive web application features with **React.js, Node.js, Typescript**, and **Tailwind CSS**
- Implemented **Git** workflows with branching strategies and pull requests across multiple deployments
- Optimized performance via **JavaScript** techniques like lazy loading, improving async data fetching

Machine Learning Intern - Financial Investment Application   Jan 2024 – Apr 2024
Microsoft WEA - Azure & AI / University of Waterloo   *Waterloo, ON*
- Designed AI pipeline using **Azure ML** and **Azure DB** to generate financial recommendations
- Refined **stock/ETF** performance prediction through **regression** models; personalized via content-based filtering
- Led cross-functional team **collaboration**, improving productivity through **communication** & **teamwork**

PROJECTS

EcoTrackr | *Javascript, Typescript, React Native, Node.js, Python, fastAPI, Expo, Axios, REST API, Google API*
- Developed full-stack mobile app (IOS & Android) to help users track + reduce carbon footprint
- Implemented frontend using React Native, JavaScript, TypeScript & Node.js, with enhanced HTTP request handling through Axios
- Developed a FastAPI-powered Python backend, serving REST APIs with 300ms response time

Cine.fm: AI Movie-based Playlist Generator | *Python, Transformers, Pandas, Sklearn, Spotify API, Genius API*
- Leveraged Hugging Face Transformers to integrate NLP models for sentiment analysis & feature extraction
- Implemented KNN algorithms and cosine similarity for content based filtering with NLP scores
- Utilized Pandas, Numpy & Scikit-learn for feature extraction and dimensionality reduction

ReadThisWeek: Dynamic Article Scraper | *Rust, JavaScript, Actix, Scraper, Reqwest, Fetch API*
- Developed web scraping system in Rust, using scraper and reqwest for HTML parsing and data extraction
- Developed a RESTful API using Actix-Web in Rust to serve scraped data to frontend client at 50 ms response time
- Integrated backend API with frontend using JS, using fetch APIs to dynamically update webpage

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, C++, HTML, CSS, SASS, Rust, Dart, SQL
Frameworks: React, React Native, Node.js, Expo, FastAPI, Tensorflow, Flutter, Firebase, Google Cloud
Developer Tools: Azure, AWS, Kubernetes, Git, Terraform, Excel, Jira, VS Code, XCode, Linux
Libraries: Pandas, NumPy, Matplotlib, Three.js, Axios, Scikit-learn, Keras, UI Kitten, Material UI

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals
Microsoft Certified: Azure Fundamentals