

Gaurav Setia

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Experience

AMD – Software PMO Engineering Intern – Django, Python, MySQL, Power Bi 05/21 – 05/22

- Developed and enhanced AMD's Phase Gate Tool, their critical project management tool
- Led the upgrade for the Phase Gate Tool's new login system to allow for hundreds of NDA protected AMD programs and projects to safely utilize the Django-based application
- Designed and produced 12 Power Bi reports that consolidate 10,000+ data points from Microsoft Project Online using MySQL/DAX querying and from Jira Tickets using Jira REST-API

Projects

SpeechSweep – React Native, Javascript, Firebase, NoSQL, CSS, Android

- Designed and developed a React Native Android app to be published to Google's play store
- Authenticated users with OTP SMS authentication and stored FCM tokens to Realtime Database
- Deployed Firebase Functions to the cloud that send timed notifications to authenticated users

Reddit's r/place – AWS, JavaScript, Python, NoSQL, Redis, HTML/CSS

- Recreated Reddit's famous r/place, a collaborative canvas where individual users can contribute one pixel every 5 minutes that is highly scalable and able to handle 1000s of requests per second
- Implemented a load-flexible application utilizing 10 Amazon Web Service components including instances of AWS Amplify, ElastiCache and DynamoDB connected using Lambda functions

Sportify – Flutter, Dart, JavaScript, Firebase, NoSQL, IOS & Android, Scrum

- Created an IOS/Android app for organizing spontaneous or planned student sporting events
- Collaborated using scrum with a team of 5 as part of Google's Developer Student Club
- Authenticated users from Firebase's Realtime Database integrated with UofT's Shibboleth

URL Shortener – Python, Flask, Bash/Shell, Docker, Redis, Cassandra

- Built a highly scalable URL shortening service capable of handling millions of URL key-pairs
- Leveraged Cassandra for data persistence and a Docker swarm of Redis nodes for caching

Rescue Rover – C++, Python, AWS

- Collaborated with a team of 4 to develop a rover that collects environment data in emergencies
- Interpreted raw environment data from multiple sensors in C++ and transmitted refined results to an AWS cloud server through Solace's Pubsub+ event management system

BrainMapper & gsetia.com – JavaScript, HTML/CSS, React, Node.js, PostgreSQL, Railway

- Created a geography trivia game which is playable at gsetia.com
- Utilizes a PostgreSQL database for the game data that is deployed by Railway
- Designed and developed a personal website serving as a portfolio

Skills

- **Languages:** Python, JavaScript, Dart, Bash/Shell, Java, HTML/CSS, C/C++
- **Technologies:** Django, Flask, React, Node.js, React Native, Firebase, Flutter, Docker, AWS, Git, Redis, PostgreSQL, MySQL, NoSQL, LaTeX, SMSS, Heroku, Linux, Jira, Confluence, Power BI

Education

University of Toronto

09/18 – 05/23

- Honours Bachelor of Science with Distinction, Specializing in Computer Science