ABHIJITH RAMALINGAM

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Pursuing full time roles within Toronto | Open to remote roles

WORK EXPERIENCE

Backend Developer | Hubba

Sept 2018 - Dec 2020

- Developed technical solutions and features for an ecommerce marketplace built with microservices using Node.js, MongoDB, AWS.
- Collaborated with a data team to build a scalable, realtime ETL service that aggregates data from different sources to Salesforce using Python, PubSub, Kubernetes , in order to deliver time-sensitive, targeted information to sales teams, leading to increases in revenue and cart size.
- Led the development of promotions, referrals and payment flows leading to an increase in new buyer signups.
- Made architecture upgrades to a tangled, legacy microservices approach by using a GraphQL gateway, thereby reducing code complexity.
- Recruited and mentored co-ops through onboarding sessions, weekly 1-1s and code reviews.

Software Engineering Intern | Amazon (A9.com)

May 2017 - Aug 2017

- Worked on the core infrastructure of the Advertising Data Platform, that stores and processes data from the Amazon Ad Exchange. The team is Amazon's largest data platform and handles tens of petabytes of data monthly.
- Reduced data storage costs by modifying open source Hadoop code to integrate with an internal Amazon service, allowing analysts to create Hive jobs and write distributed queries on encrypted data stored in AWS S3.
- Performed benchmark tests with Hive, querying terabytes of data to compare performance tradeoffs at scale between HDFS and S3.

Software Development Intern | Capital One Canada

Sept 2016 - Dec 2016

- Developed a secure, highly-available infrastructure for releases of Data Science projects using EC2, Docker, Terraform.
- Wrote a Node.js API that integrated with internal data models and services, to present Mobile Beta users with their predicted recurring monthly credit card transactions.

Distributed Systems Engineering Intern | Wave Inc.

Jan 2016 - April 2016

- Developed scalable, fault-tolerant backend APIs with Python and Django for a cloud-based accounting product.
- Stored each database change as a sequenced, immutable and queryable event (Event Sourcing) for scalability and auditability.

TECHNICAL SKILLS

Languages: Python, JavaScript, Typescript, Java, C/C++

Data Analysis: Numpy, Pandas, Matplotlib, Scikit-learn,

Dev Ops: Bash, Docker, Kubernetes, Terraform, AWS ECS, RabbitMQ

Web: HTML/CSS, Node.js, Express, React, Django, Flask

Database: MySQL, PostgreSQL, MongoDB, Redis

PROJECTS

Smart Vents : (Sept 2017 - March 2018) Cloud Lead for an IoT (Internet of Things) system that lets users control individual room temperatures inside their homes using a smart vent system and a smart thermostat. Won a $500 award for "Best IoT Project" at the Mechatronics Engineering Design Symposium. *Tech Used: Python, Node.js, AWS (IoT, EC2, S3), Heroku, MongoDB*

Autonomous Mobile Robotics Labs: (Sept 2017 - Nov 2017) Implemented path planning, mapping and localization for a small personal robot (turtlebot) as part of coursework for "Autonomous Mobile Robots". *Tech Used: C++, ROS*

Personal Finance Chatbot : (October 2016) Developed a Facebook Messenger chatbot that allows individuals to keep track of their finances, set savings goals and visualize their spending patterns. *Tech Used: Python, Flask, Node.js, Express, AWS EC2, MongoDB, jQuery*

EDUCATION

University of Waterloo

Sept 2013 - April 2018

- BASc in Mechatronics Engineering, Honours, Co-operative Program. Graduated with distinction.
- **Relevant Coursework:** Algorithms and Data Structures, Real time Operating Systems, Embedded Microprocessor Systems Statistical Analysis, Autonomous Mobile Robots, Pattern Recognition, Design and Analysis of Algorithms

Online Coursework - Coursera

- **Machine Learning**
- **Intro to Recommendation Systems**
- **Exploratory Data Analysis**