ATHUL SREEMATHY RAJ

SOFTWARE ENGINEER | RESEARCHER

- +1-438-728-3789
- athuljayaraj@gmail.com
- https://in.linkedin.com/in/athuljayaraj
- www.github.com/athuljayaraj

EXPERIENCE

Research Assistant
HESL, Polytechnique Montréal (Sep 2021 - Dec 2022)

- Developing a federated algorithm for improved personalization on edge-devices
- Courses completed - Advanced Machine learning, Software design, Data visualization, Project Management

Technologies and Tools: Python, Pytorch, Numpy

Full-stack developer
RUSE AI, Montréal, QC (Jan 2022 - Present)

- Building an AI powered poker trainer that helps intermediate to expert poker players play better
- Designing, and implementing the product and it's features bound to be released in September 2022

Technologies and Tools: Flutter, Dart, NodeJS, NestJS, Typescript, VS Code, AWS, Github, Atlassian, JMeter

Senior Software Engineer
Keyvalue Software Systems, India (Aug 2020 - Aug 2021)

- Developed MVP of an e-commerce platform in <2 months, and then productionized it (>1M users)
- DB design for the same, which proved flexible enough for feature additions by ~70 developers currently.
- Implemented TOTP based user authentication, Google Maps integration, SMS and WhatsApp integration
- Led a team of 3, to create an independent module for logistics, and completed integration of 7 different logistics partners within 2 months

Technologies and Tools: NodeJS, Typescript, NestJS, Jest, PostgreSQL, GraphQL, Sentry, GCP, Linux

Technical Staff
Shopalyst Technologies, India (Jan 2020 - Aug 2020)

- Cleaned up 5 years of messy code by implementing code structuring(directory tree), removing redundant and unused code, and mandating code formatting(Black for Python)
- improved test coverage from 30% to above 70% for a codebase of more than 100 independent scripts

Technologies and Tools: Python, Elasticsearch, Kibana, VS Code, Github

Software Engineer
Flytxt Mobile Solutions, India (July 2015 - Dec 2019)

- Enabled audience estimate calculation for an Ad targeting solution by more than 100 times by porting ~250 million records from MySQL to Elasticsearch
- Developed POC for an experience-centric cloud solution for targeted marketing which included voice-based control, dynamic themes, salesforce integration, and a chatbot
- Interviewed, trained and onboarded more than 25 fresh engineers across multiple teams in the company

Technologies and Tools: Java, Spring, MySQL, Elasticsearch, REST, Atlassian, Github, Linux

EDUCATION

Polytechnique, Montréal
M.A.Sc in Computer Science, Present
- CGPA - 4/4

University of Kerala, India
B.Tech in Computer Science, Apr 2015
- CGPA - 7.6/10