

Mohammed Shamil

COMPUTER SCIENTIST · DEVELOPER

Toronto, Canada

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Work Experience

Sholo Inc. (Stealth Mode Startup)

Vancouver, Canada/Remote

FOUNDING ENGINEER (FULL STACK) | (JAVA, JAVASCRIPT, SPRING BOOT, REACT)

April, 2020 - Present

- Led a team of 3 in building an trading platform with engines for algorithmic bot trading, backtesting and data analysis
- Developed the whole product from scratch which currently processes trades worth \$2 million every month
- Ported the prototype done in Node.js to Java Springboot improving backtesting performance by 300%

Samsung R&D Institute Bangalore

Bangalore, India

SOFTWARE ENGINEER II (INTERACTIVE INTELLIGENCE, ADVANCED TECHNOLOGIES LAB) | (C++, TIZEN)

February, 2018 - March, 2020

- Designed and developed ReplyAssist, an on-device smart reply and emoji suggestion engine with an E2E latency of 300ms
- Built a compile time minification layer which reduced the memory footprint to just 2.5 MB ROM and 5 MB RAM
- Led the language extension through Samsung InnerSource, enabling ReplyAssist on 20+ million smart watches across 9 languages

Samsung R&D Institute Bangalore

Bangalore, India

SOFTWARE ENGINEER I (SMART ASSISTANT, ADVANCED TECHNOLOGIES LAB) | (JAVA, SPRING)

July, 2016 - February, 2018

- Worked on AlterEgo, a general purpose, context aware, conversational NLP engine that drew inferences from textual conversations
- Revamped the compute-intensive P3 (Pre-Parsing Processor) Module, that preprocesses text data thus improving the load times by 5x
- Implemented multiple heuristics in the Context Engine improving the accuracy of AlterEgo to 65% on generic conversations

Microsoft India Development Centre

Hyderabad, India

SUMMER INTERNSHIP PROGRAMME | (C#, JAVASCRIPT)

May, 2014 - July, 2014

- Took responsibility both as a Program Manager as well as a Software Developer collaborating with multiple stakeholders globally
- Developed a tool for the Information and Content Experience team to curate social media content for MSN Entertainment

NAICO ITS

Kochi, India

SUMMER INTERNSHIP PROGRAMME | (OBJECTIVE C)

June, 2013 - July, 2013

- Developed a native iOS medical database application deployed over multiple private clinics in the US
- Native front end development using objective C and cocoa touch on a robust .NET framework based backend

Education

Indian Institute of Technology Madras

Chennai, India

MASTERS & BACHELORS IN COMPUTER SCIENCE AND ENGINEERING (DUAL DEGREE)

July 2011 - May 2016

- CGPA: 8.76/10.00

Technische Universität München

Munich, Germany

EXCHANGE SEMESTER IN THE DEPARTMENT OF INFORMATICS (MASTERS)

March 2015 - September 2015

- Earned 21 Credits as a DAAD Scholar

Skills

Programming Languages Java, C/C++, JavaScript, Python

Tools and Frameworks Spring Boot, React, Node.js, Express, AWS, MySQL, Docker, Git, CircleCI

Projects

RestroBoy

Seoul, Korea

SAMSUNG GLOBAL ROBOT HACKATHON

November, 2018

- Built Restroboy, an on-device conversational agent capable of multi-modal interaction with restaurant customers
- Developed its Context Manager responsible for tracking and handling the context flow and triggering appropriate actions

Parallel Incremental/Decremental Graph Colouring on GPUs

Chennai, India

MASTER'S PROJECT UNDER THE GUIDANCE OF PROF. RUPESH NASRE, IIT MADRAS

January, 2015 - May, 2016

- Explored parallel graph colouring algorithms and ran them on large graphs on NVIDIA GPUs
- Came up with two algorithms each for incremental and decremental graph colouring algorithms on GPUs
- Employed multiple propagation techniques to improve the colour quality produced by the parallel algorithms

Awards & Achievements

- 2020 **Patent**, 201841029152, Method and System for Smart Reply, Published on 07/02/2020
- 2019 **Samsung Robot Hackathon Excellence Award**, For placing 9th out of 400+ submissions worldwide
- 2018 **Samsung Citizen Award**, For the outstanding contributions towards ReplyAssist and other smart solutions
- 2015 **DAAD Scholarship**, Was awarded the scholarship 'A New Passage to India' by the German government