Mohammed **Shamil**

COMPUTER SCIENTIST · DEVELOPER

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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 a 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 draws inferences from textual conversations
- Revamped the compute-intensive P3 (Pre-Parsing Processor) Module, which 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 social network 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