Shahwar Saleem

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EDUCATION

Master of Science, Computer Engineering — May-2016 - Present
University of Waterloo — Waterloo, Canada
Concentration: Computer Software

- Percentage: 90%
- Supervisor: Dr. Krzysztof Czarnecki

Bachelor of Science, Computer Engineering — Sep-2009 - June-2013
University of Engineering and Technology — Lahore, Pakistan

- GPA: 3.48/4.0
- Advisor: Dr. Atif Alvi (Cambridge University)
- Thesis: Load Balancing of Computationally Intensive Algorithms using Beowulf Cluster

TECHNICAL SKILLS

Languages & Software: C, Java, Python, JavaScript, React.js, GraphQL, Bash Scripting, Assembly Language, Nucleus RTOS
Operating Systems: Linux, OS X, Windows
Tools: SVN, Git, JIRA, Asana, Slack, Fisheye Crucible, Planio

EXPERIENCE

Software Engineer — Jan-2017 - Present
Stowk Driver Inc, San Jose, CA.

- Leading React.js based mobile application team.
- Working on GraphQL baseed API backend.
- Mostly responsible for architectural problems of the mobile application.

Graduate Research Assistant — May-2016 - Present
GSD Lab, University of Waterloo — Waterloo, ON

- Working on autonomous car project
- Leading system integration efforts regarding embedded components of the car.
- Working actively with QNX RTOS on embedded boards.

Software Engineer — Nov-2014 - May-2015
Mentor Graphics — Lahore, Pakistan

- Worked on Eclipse based IDEs ReadyStart and Codebench.
- Worked on Eclipse plug-ins and Eclipse GUI using SWT/JFace & MVC work flow in Java.
- Added support for Kernel Awareness to visualize processes and core occupation on a multi-core architecture. (SMP and AMP)

Embedded Software Engineer — Oct-2013 - Nov-2014
Mentor Graphics — Lahore, Pakistan

- Worked on Nucleus RTOS based Board Support Packages (BSPs)
- Developed device drivers like I2C, LCD Display, SPI, Serial for Nucleus RTOS on ARM & PPC Architecture.
- Learned about debugging tools like JLink, BDI and MESP.

GRADUATE PROJECTS

- Autonomous Car Platoon using Fuzzy Logic and Neural Networks
- Multiple-Producer Multiple-Consumer based Shortest Path Solving Server (Dijkstra's Algorithm and System Programming)
- Prediction of Yelp rating based on user text reviews (Natural Language Processing techniques like Stemming, Vectorization, N-Grams)

AWARDS

- Graduate Research Studentship - University of Waterloo - (2016 - 2018)
- International Master's Student Award - University of Waterloo - (2016 - 2018)
- National Talent Scholarship from Government of Pakistan (2009-2013)