

## Shahwar Saleem

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<b>EDUCATION</b>	<i>Master of Science, Computer Engineering</i> University of Waterloo Concentration: Computer Software <ul style="list-style-type: none"><li>• Percentage: 93%</li><li>• Supervisor: Dr. Krzysztof Czarnecki</li></ul>	May-2016 - Present Waterloo, Canada
	<i>Bachelor of Science, Computer Engineering</i> University of Engineering and Technology <ul style="list-style-type: none"><li>• GPA: 3.48/4.0</li><li>• Advisor: Dr. Atif Alvi (Cambridge University)</li><li>• Thesis: Load Balancing of Computationally Intensive Algorithms using Beowulf Cluster</li></ul>	Sep-2009 - June-2013 Lahore, Pakistan
<b>TECHNICAL SKILLS</b>	<i>Languages &amp; Software:</i> C, Java, Python, JavaScript, React.js, Bash Scripting, Assembly Language, Nucleus RTOS <i>Operating Systems:</i> Linux, OS X, Windows <i>Tools:</i> SVN, Git, JIRA, Asana, Slack, Fisheye Crucible, Planio	
<b>EXPERIENCE</b>	<i>Software Engineer</i> Stowk Driver Inc, San Jose, CA.	Jan-2017 - Present
	<ul style="list-style-type: none"><li>• Leading React.js based mobile application team.</li><li>• Working on GraphQL based API backend.</li><li>• Mostly responsible for architectural problems of the mobile application.</li></ul>	
	<i>Graduate Research Assistant</i> GSD Lab, University of Waterloo	May-2016 - Present Waterloo, ON
	<ul style="list-style-type: none"><li>• Working on autonomous car project</li><li>• Leading system integration efforts regarding embedded components of the car.</li><li>• Working actively with QNX RTOS on embedded boards.</li></ul>	
	<i>Software Engineer</i> Mentor Graphics	Nov-2014 - May-2015 Lahore, Pakistan
	<ul style="list-style-type: none"><li>• Worked on Eclipse based IDEs ReadyStart and Codebench.</li><li>• Worked on Eclipse plug-ins and Eclipse GUI using SWT/JFace &amp; MVC work flow in Java.</li><li>• Added support for Kernel Awareness to visualize processes and core occupation on a multi-core architecture. (SMP and AMP)</li></ul>	
	<i>Embedded Software Engineer</i> Mentor Graphics	Oct-2013 - Nov-2014 Lahore, Pakistan
	<ul style="list-style-type: none"><li>• Worked on Nucleus RTOS based Board Support Packages (BSPs)</li><li>• Developed device drivers like I2C, LCD Display, SPI, Serial for Nucleus RTOS on ARM &amp; PPC Architecture.</li><li>• Learned about debugging tools like JLink, BDI and MESP.</li></ul>	

*Embedded Research Intern*

Al-Khwarizmi Institute of Computer Science(R&D)

Apr-2013 - Jul-2013

Lahore, Pakistan

- Worked on type - II hypervisor.
- Learned instruction translation mechanism from Guest OS to Host OS.
- Learned about debugging different instructions on Otheon 12 board.

## **GRADUATE PROJECTS**

- Autonomous Car Platoon using Fuzzy Logic
- 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)