

Rajat Singh

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Professional Overview

Upcoming SENG graduate offering a strong foundation in software engineering and IT fundamentals across multiple domains. Familiar with cloud infrastructure, API design, testing methodologies and agile principles. Passionate about learning new technologies and a great team player dedicated to creating a positive work environment and streamlining processes.

Education

Bachelor of Science in Software Engineering (*In Progress*)

Expected Graduation: 2019

Schulich School of Engineering
University of Calgary

Current GPA: 3.76

Coursework: Embedded Systems, Data Structures and Algorithms, Databases, Software Architecture, Agile Development, Requirements Engineering, Software Testing, Digital Circuits, Signal Processing, Computer Organization, Computer Networks, Operating Systems

Scholarships/Honors:

- University of Calgary – Continuing Undergraduate Scholarship (2016, 2017, 2018)
- University of Calgary – Dean's List (2016, 2018)
- University of Calgary – President's Admission Scholarship (2014)

Work Experience

Global IT Application Analyst

Sept 2017 – Aug 2018

ExxonMobil – Calgary, AB

Worked on a global IT team responsible for supporting and enhancing timekeeping, manufacturing and corporate applications.

- Provided operational supported for multiple applications to various sites and business lines.
- Worked on application enhancement, end-of-life and upgrade projects.
- Followed appropriate change management processes for moving changes between environments.
- Developed full-stack web applications using cloud infrastructure and latest development frameworks, authentication, version control, unit testing and CICD (continuous integration and deployment) pipelines.
- Followed a complete agile framework for work prioritization and management.
- Collaborated with other team members to plan, design and implement solutions based on provided requirements.
- Interfaced with business lines, vendors, developers and various other IT teams to troubleshoot and find effective solutions to the problem at hand.

Cashier and Supervisor

May 2015 – Sept 2016

ESSO Gas Station - Richmond, BC

Trained new employees and supervised 3 people per shift. Managed till, shift ends and cash counts. Dealt with difficult customers diplomatically and came to a reasonable solution.

Technical Skills

- **Programming Languages:** JavaScript, C#, Java, Assembly (MIPS, BlackFin), SQL, C++
- **Web Development Frameworks/Tools:** AngularJS, Angular, React, Vue, Gulp, Grunt, ASP.NET
- **Development Platforms:** Azure Cloud, Google Cloud Platform, SQL, Entity Framework, JAX-RS (Apache), Android Development, .NET, Unit Testing
- **Operating Systems:** Linux Enthusiast (Ubuntu, Fedora, eOS, Arch Linux)
- **IDEs:** Very open and comfortable to changing development environments including Command line.

Academic Projects

Embedded System and Signal Processing

2016

- Developed and optimized code in C and Assembly for the Blackfin ASDP553 Processor.
- Worked with pseudo-multithreaded applications and simulators with focus on testing.
- Data retrieval from thermal sensors, detecting button press durations.
- Worked with GPIO and SPI interfacing.
- Designed programs based on a loop OS and FSMs

RRQ Rental Solutions – Web Development & Databases

2016

- Designed a complete database based on the problem description.
- Developed an interactive web app as a companion to the database.
- Implemented a complete login system with session guards.
- Wrote a concise and professional user manual.
- *Technologies Used: PHP, SQL, HTML, CSS, and JavaScript*

Multi-Platform Alarm Clock

2017

- Worked in a team of 6 developers and followed the agile methodology.
- Extensively used version control (Git) and engaged in pair programming.
- Prototyped and implemented intuitive UIs.
- Developed a Windows Desktop (WPF) and Windows Mobile (UWP) solution.
- Participated in daily stand-ups and followed a strict periodic release schedule.

Key Strengths

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|---------------------------------------|----------------------------------|
| ● Always Curious and Analytical | ● Hard Working and Dedicated |
| ● Confident and Experienced Presenter | ● A keen eye for UI Design |
| ● Quick and diverse Learner | ● Detail and Deadline Oriented |
| ● Believes in Elegant Code | ● Very Energetic and Charismatic |

Interests/Hobbies

- Physics and Astronomy: The driving force behind my aspiration for logical reasoning.
- Philosophy Enthusiast: A love for the analysis of thought and reasoning
- PC Hardware Tinkerer – Experienced in building systems from scratch and overclocking
- Social Activities: Always enthusiastic to meet new people and create meaningful relations.
- Sports: Table Tennis, Squash, Cricket, and Badminton.