**Jay Nayak**

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Target Position

Position as **Software Engineer**

**Employment**

Cybersecurity Researcher 01/2019 – Present

University of Regina, Regina, SK, Canada

* Design, implement, and evaluate cybersecurity architecture, security-focused tools, mitigation plans, and algorithms for risk assessment and solve cybersecurity issues in cyber-physical systems.
* Develop penetration testing simulations by computing threat vectors for critical infrastructures.

Software Development Engineer 11/2015 – 07/2018

Tata Consultancy Services Ltd. (TCS), Ahmedabad, India

* Backend and Full Stack web development in Java. Design, develop, and test highly scalable software systems delivering business requirements of clients.
* Module Owner, Team Leader from 05/2017 to 07/2018. Working collaboratively with cross-functional engineering, user experience (UX) designers, management, and business leaders for successful application deliveries.
* Designed and implemented various enterprise-scale applications such as Contract Management System, Invoice Management System, and Report to Record (R2R) – Month End.
* Development of a Supply Chain Management (SCM) module and successful implementation in a very strict timeline helped the project team attract its first client.
* Redesigned file/multimedia attachments feature for enhancing file security and implemented globally across all projects of the company in the Government SAP IS-U.

**Languages and Technologies**

* Programming: Java, JavaScript (ES6), Python, C/C++, HTML 5, CSS, Matlab
* Databases & Frameworks:, SQL (PostgreSQL, MySQL), React, Junit, Spring Boot, Hibernate, Zk
* Tools/Operating System: Eclipse, Visual Studio Code, Jupyter Notebook, SQuirrel SQL Client, TortoiseSVN, Git, Putty, Wireshark, NS-2, Microsoft Visio, Riverbed modeler, LaTex, Windows, Linux

**Relevant Technical Skills**

* Over 3 years of industry experience in software development (OOP in Java), relational database designs, requirements gathering, and software development life cycle such as designing, developing, maintaining, coding standards, debugging, code reviews, deployments, documentation, testing.
* Backend and Full Stack web applications (APIs) design and development, distributed systems (client-server, multi-tiered), and working in an agile software development process.
* Detailed knowledge of object-oriented (OO) system design and development, web services, DevOps practices, REST APIs, data structures & algorithms, and problem-solving.
* Over 2 years of work experience in optimization mathematics (nonlinear programming (NLP)): designing and developing algorithms for optimizing NP-Hard problems.

**Education**

Master of Applied Science – Electronic Systems Engineering, GPA: 88.4/100 2018 – 2020

University of Regina, Regina, SK, Canada

Bachelor of Technology – Electrical Engineering, GPA: 3.46/4.0 2011 – 2015

Nirma University, Ahmedabad, Gujarat, India

**Additional Experience and Accolades**

* Mentoring junior software engineers in TCS, India.
* ‘On The Spot Award’ (Award for Excellence) in TCS for successfully developing a project in a very crucial deadline.
* Graduate Teaching Assistant at University of Regina, SK, Canada (2019 – 2020).
* The Saskatchewan Innovation and Excellence Graduate Scholarship, SK, Canada (twice).
* Master’s Award, University of Regina, SK, Canada.