

# Tejash Patel

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## WORK EXPERIENCE

### MARCH NETWORKS | SOFTWARE DESIGNER, BACKEND TEAM

April 2023 – Present | Full-time | Ottawa, ON

Sep 2021 – April 2022 | Co-op Student | Ottawa, ON

- Created a high-performing cloud platform using Node.js, employing a **micro-service architecture** designed for horizontal scalability
- Actively participated in the development of ongoing features, writing **server-side code in TypeScript**. Implemented comprehensive unit tests and automated integration/regression tests to ensure complete coverage
- Assumed responsibility for resolving critical technical issues, ranging from framework challenges to business logic, effectively resolving them
- Architected and managed Infrastructure as a Code (IaaS) on **AWS cloud**, maintaining its stability. Leveraged Jenkins automation server to facilitate seamless deployment of applications to the cloud. Implemented **Kubernetes, Helm, and Rancher** technologies for efficient application management, scaling, and orchestration

### KINAXIS | SOFTWARE DEVELOPER CO-OP, PV DEVOPS

Jan 2021 – Aug 2021 | 8 Months | Ottawa, ON

- Participated in the maintenance of the **Quality Data Warehouse**, an application framework that uses a mix of database technology (Microsoft SQL Server) to deliver near real time metrics for the R&D organization
- Analyze Jenkins pipeline executions and implement improvements to reduce infrastructure downtimes
- Develop tools such as dashboards using C#, .Net, Ag-grid, Visual Studio, SQL Server, Docker for gathering testing metrics that are used by the Release Delivery team

### NATIONAL RESEARCH COUNCIL OF CANADA | WEB

APPLICATION DEVELOPER CO-OP

May 2020 – Aug 2020 | 4 Months | Ottawa, ON

- Developed real time **data visualization dashboards** for clients using D3.js, jQuery, interactive SVG to display building energy consumption data
- Designed energy dashboard with a neat user interface helping building managers to analyze and optimize production costs as well as to increase the overall profitability in the long-run
- Employed the use of **data structures in Java and JavaScript** to reduce repetitive code and increase scalability of algorithms by at least 15%

### OSHAWA PAYDAY LOANS | SOFTWARE DEVELOPER

May 2019 – Aug 2019 | 4 Months | Ottawa, ON

- Created a **loan management web platform** for Cash Express (a local business) to manage loans and generate reports
- Implemented both front-end and back-end tools and technologies – **HTML, CSS, Bootstrap, JavaScript, NodeJS, ExpressJS, and mongoDB**
- Deployed the full stack web application software to handle more than **500 customers** and manage their loans with Heroku

## EDUCATION

### CARLETON UNIVERSITY

BENG IN SOFTWARE ENGINEERING

Sep 2018 – Apr 2023 | Ottawa, ON

CGPA: 11.70/12.00

Dean's List Student

## ASK ME ABOUT

### IEEE OTTAWA SECTION

PUBLICATIONS COMMITTEE CHAIR

July 2020 – 2022 | Ottawa, ON

- Coordinate the publications team to strategically and efficiently **manage the social medias and website** of the section
- Compose and publish newsletter regularly for the section to keep the members informed about the latest news and upcoming events

### TEACHING ASSISTANT

CARLETON UNIVERSITY

Multiple Terms | Ottawa, ON

- Hosted assignment workshops to teach **Python data structures**, libraries for scientific computing (NumPy, SciPy) and data visualization (Matplotlib)
- Helped students understand and master **object oriented programming (Java)** and software development concepts during multiple weekly lab sessions

## LINKS

LinkedIn:// [tejash-patel-3402](#)

Github:// [tejash-patel](#)

Website:// [tejash-patel.github.io](#)

Gmail:// [tejashpatel3402](#)

## SKILL SET

### LANGUAGES

Java • C • Python • Javascript • NodeJS  
HTML5 • CSS3 • Docker • Kubernetes  
Git • Github Workflow • D3.js  
jQuery • RESTful APIs

### FIELDS

- Web Development • Databases
- Algorithms • Data Structure
- Functional Programming • Web Design
- Object Oriented Software Design