# Jinil Panawala

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### **Education**

University of Waterloo

Candidate for Bachelor of Computer Science (BCS)

• Relevant Courses: Algorithms, Data Structures, Object-Oriented Software Development, Operating Systems

## Technical Skills\_

Languages: Python, JavaScript, TypeScript, C/C++, Java, C#, SQL, Bash, HTML, CSS Libraries and Frameworks: React, Vue.js, Node.js, Express.js, Bootstrap, Tailwind, jQuery, Cypress, JUnit Tools and Technologies: AWS, Azure DevOps, MongoDB, PostgreSQL, Linux, Git, SVN, Talend, VS Code Certifications: AWS Certified Cloud Practitioner

### Work Experience

#### MCAP

Jr. Software Engineer

- Enhanced broker commission and payout calculations for the company's mortgage lending application and related microservices with new logic using **Vue**, **TypeScript**, and **RESTful** APIs to streamline the onboarding of a new lender.
- Streamlined schema by creating a **MongoDB** script to remove unused datapoints from documents in multiple collections, impacting approximately **88%** of deals in the PROD environment.
- Investigated and resolved **5 out of 8** pipeline stage failures by fixing **Cypress** automation tests and delivered a knowledge transfer session to the team of **15** for future reference.
- Utilized Azure DevOps for CI/CD pipeline management and automating deployments for efficient software delivery.

#### **Rich Media**

Jr. Web Programmer

- Developed critical features and updates for web applications and financial calculators to serve banking industry clients using **JavaScript**, HTML, CSS, and **jQuery**, driving client satisfaction and revenue growth for the company.
- Spearheaded the implementation of mortgage insurance partial coverage options for **4** separate tools, enabling both the public users and client internal employees to calculate mortgage insurance payments and view detailed results.
- Re-engineered responsive quiz and poll components for the company website by leveraging **React**, TypeScript, and the company API, while playing a vital role in the company's ongoing website migration efforts to React.

#### Tech Mahindra

Jr. Software Engineer

- Created Talend jobs to validate files and integrated custom Java code as part of a migration project for a BFSI client.
- Contributed to the **SDLC** using **Agile**, gaining knowledge on **ETL** patterns, data warehousing, and big data concepts.

### **Projects**

#### Chess (CS 246 Final Project) || C++, GNU Debugger

- Implemented a comprehensive chess program in C++, featuring human vs human, human vs computer, and computer vs computer game modes with up to 4 difficulty levels.
- Introduced a custom setup mode enabling players to play games from user-defined starting positions to practice positions.
- Employed object-oriented programming principles and dynamic memory management within an **MVC** architecture, successfully merging over **3000** lines of code.

#### $\textbf{Stock Watchlist} \parallel \textsf{React}, \textsf{Express.js}, \textsf{Node.js}, \textsf{MongoDB} \textsf{Atlas}, \textsf{AWS} \textsf{EC2}, \textsf{Bootstrap}$

- Designed and developed a full stack stock watchlist **MERN** app implementing CRUD operations, featuring a search functionality for over **70,000** stocks, data visualization, saving stocks to a watchlist, and being mobile-optimized.
- Incorporated React and Bootstrap for the frontend, coupled with Express and Node for the backend implementation and creating **RESTful** APIs. **MongoDB** Atlas served as the database for storing users' saved stocks.
- Deployed and publicly hosted on an AWS EC2 Ubuntu instance, utilizing PM2 and Nginx for efficient management.

### Twitter Sentiment Bot || Python, Twitter API, TextBlob

- Developed a Twitter bot in **Python** that can tweet, follow, like tweets and conduct sentiment analysis using the **Twitter API**.
- Implemented functions that carry out common natural language processing (NLP) tasks such as conducting sentiment analysis of tweets using the **TextBlob** library with up to **70%** accuracy.

Waterloo, ON

Toronto, ON

Toronto, ON

May 2023 – Aug 2023

Jan 2024 – Apr 2024

Waterloo, ON

Sept 2022 - Apr 2027

Sept 2024 – Dec 2024