

Payam Yektamaram

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PROFESSIONAL SUMMARY

Software Engineer with 4 years of full stack experience specializing in Python, React.js, and PostgreSQL. Enjoys building scalable applications with intuitive and user-friendly design patterns. Passionate about chess programming, algorithm optimization, and applying creative problem solving to complex technical challenges.

PROFESSIONAL EXPERIENCE

Municipal Property Assessment Corporation

Full-stack Developer & I.T Manager

Pickering, ON, Canada

August 2023 - May 2025

- Developed and presented a cross-platform tablet application for the City of Winnipeg RFP, successfully beating out Tyler Technologies and Esri in securing a 10-year multi-million dollar contract that launched the Commercial Division
- Refactored Python/Pandas ETL pipeline using vectorized operations to overcome GIL limitations, reducing runtime from 12 to 3 hours, cutting AWS costs by 66%, and accelerating deployment cycles from every 2 days to daily
- Utilized Jupyter notebook and Pandas to transform Winnipeg income and property data to match our new standardized JSON schema, improving our assessment value accuracy with the Winnipeg system to upwards of 99%
- Rebuilt two frontend codebases to adopt a standardized JSON schema using TypeScript interfaces, enabling support for a new multi-tenant architecture to save months of development time during new client on-boardings

Municipal Property Assessment Corporation

Systems Developer

Pickering, ON, Canada

September 2022 - August 2023

- Lead developer for an offline-capable Electron.js/React.js tablet app enabling property inspectors to work in remote Canadian terrain, boosting productivity by over 80% compared to the previous pen-and-paper process
- Developed an automated pipeline to produce desktop application executable's for Windows and Mac operating systems with automatic code signing, reducing the time to release new versions by hours
- Integrated commercial grade laser measuring devices with the sketching capabilities of the tablet application to enable property inspectors to create floor plans with extreme precision reducing measuring errors by 98%

Municipal Property Assessment Corporation

Junior Systems Developer

Pickering, ON, Canada

January 2020 - December 2020

- Developed a robust React.js rich-text code editor component to manipulate and format JSON documents with a GitHub style commit history timeline, drastically simplifying the creation of business domain data
- Designed and implemented a high-performance asynchronous Python REST API for AWS DocumentDB, centralizing business domain data across dozens of internal systems and eliminating data duplication

EDUCATION

University of Toronto

Bachelor's, Computer Science

August 2018 - August 2022

GPA: 3.89

- High Distinction

PROJECTS

Rook (UCI Chess Engine) - [Link to project](#)

- Rook is an UCI compatible chess engine that is currently under development to generate pseudo-legal moves using magic bitboards; Python, PyTest, UV

Oracle (Life Expectancy Predictor) - [Link to project](#)

- Oracle can deliver research based life expectancy estimates based on a multi-attribute user profile within milliseconds; Python, PyTest, Pydantic, PostgreSQL, FastAPI, SQLAlchemy, Docker, Poetry

SKILLS

Languages: Python, JavaScript, Java, TypeScript, Rust, C#, SQL, Groovy, Haskell, GraphQL, Bootstrap, MATLAB, HTML/CSS, Assembly, C/C++

Libraries/Frameworks: React.js, AngularJS, Vue.js, Pandas, Node.js, Electron.js, Express.js, Nodejs, Spring Boot, Sanic, FastAPI, SQLAlchemy, Agile, Pytest, Next.js, Redux.js, NumPy, Storybook, Tailwind CSS, Zustand, Pydantic, Svelte, Scrum, JUnit, Socket.io

Tools/Technologies: Jupyter Notebook, AWS, Nginx, Docker, MongoDB, Postgres, SQLite, Git, SVN, Slack, DocumentDB, JIRA, Atlassian, Figma, Maven, Gradle, Redis, Elasticsearch, OpenSearch, DocumentDB, OIDC, OAuth, CI/CD