

# Theeraj Chandra

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## EDUCATION

### University of Waterloo

Sep 2022 – Apr 2027

*Bachelor of Applied Sciences in Computer Engineering*

- Relevant courses: Real-time OS, Databases, Computer Networks, Systems Programming and Concurrency

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Java, TypeScript, MATLAB, Verilog

**Libraries & Frameworks:** React, PyTorch, OpenCV, pandas, Angular, Next.js, Vue.js

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

## EXPERIENCE

### Software Quality Engineer Intern [Incoming] | Python, Go, Ruby on Rails, Playwright

Jan 2026

*StackAdapt*

*Toronto, ON*

### Software Engineer Intern | React.js, TypeScript, Material UI

Jan 2025 – Apr 2025

*SuperWorld Inc.*

*Miami, FL*

- Engineered a geolocation-based **virtual check-in** feature for SuperWorld Map using the Haversine formula algorithm, enabling users to authenticate location proximity within a 300m radius, thus enhancing user engagement through location verification
- Played a key role in developing our proprietary **conversational AI interface** powered by Meta LLaMA 3, enhancing user retention through personalized map interactions, persistent chat history, and intuitive mobile-first UX, thus growing active user-base by 36%
- Built a React + TypeScript dashboard with async parallel API calls for real-time KPI updates and interactive Recharts visualizations

### Connected and Autonomous Vehicle Developer | C++, Python, OpenCV

Nov 2024 – Jan 2025

*UWaterloo Alternative Fuels Team(UWAFIT)*

*Waterloo, ON*

- Applied sensor fusion and object detection algorithms with V2X communication to improve autonomous vehicle safety and automation capabilities.
- Assisted in developing the camera-based driver attentiveness detection system using OpenCV and TensorFlow, enabling accurate monitoring of driver behavior and detection of inattentiveness.

### QA Analyst Intern | Azure DevOps, Perl, Postman

Jan 2024 – Aug 2024

*First National Financial LP*

*Toronto, ON*

- Developed **Python** and **Perl** scripts to automate pooling target validation and improve testing processes, ensuring higher reliability and reducing manual efforts by **30%**
- Tested mortgage broker tools for BMO, TD, and Manulife on staging and QA environments, performing **regression**, **UAT**, and **exploratory** tests to validate functionality and client-specific requirements
- Performed **API testing** on Merlin Mobile with **Postman** to verify internal system integration and data retrieval

## PROJECTS

### BehindTheTick | Next.js, TypeScript, Tailwind CSS, Node.js, Recharts

Jan 2025 – Present

- Engineered a full-stack platform that ingests Senate, House, and Form 4 filings, normalizes data, and streams updates to a responsive dark-themed UI via WebSockets in under 500 ms
- Delivered interactive dashboards with Recharts, and enforced zero-lint TypeScript standards
- Defined a roadmap to integrate a PyTorch-based AI engine trained insider filings for real-time 30-day alpha predictions

### FPGA Matrix-Vector Engine | SystemVerilog, Vivado, FPGA

July 2025

- Designed an 8-lane pipelined matrix-vector multiplication core featuring an 8x8 dot-product tree with DSP48 macros, dual-port BRAM, and a control FSM
- Achieved 346MHz timing closure (Top 10% in the cohort) on the target FPGA and verified functionality with comprehensive unit and top-level testbenches