

# 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 - Apr 2026

StackAdapt

Toronto, ON

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### 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

### Test Engineer 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

## PROJECTS

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

- 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

### Leva | Python, NodeJS, PostgreSQL

- Architected Leva, a full-stack B2B FinTech OS to solve the freight industry's critical cash-flow gap by using workflow data as an underwriting engine for embedded trade finance.
- Engineered the secure, multi-tenant backend using FastAPI (Python), a service-oriented architecture, PostgreSQL, Alembic migrations, and JWT authentication.
- Developed the professional React/TypeScript frontend using React Query for asynchronous server-state caching/mutations and Zustand for lightweight global auth state.

### RTOS Kernel | C, ARM Assembly

- Developed a preemptive RTOS kernel from scratch for ARM Cortex-M4, supporting 16 concurrent tasks with EDF scheduling algorithm
- Implemented kernel primitives including SVC-based system calls, PendSV/SysTick interrupt handlers, and a custom heap allocator with block coalescing that reduced memory fragmentation by 40%+