

# Mehmet Berke Karadayi

+1 (604) 710-2402 | mberkekaradayi@gmail.com | mberkekaradayi.com | mberkekaradayi | mberkekaradayi

## Technical Skills

Programming Languages	TypeScript, JavaScript, Python, HTML/CSS, C, SQL
Frameworks and Libraries	React, Redux, React Native, Django, Next.js, Node.js, Express.js, Electron.js, Tailwind CSS, Django Rest Framework
Technologies and Tools	Git/Github, PostgreSQL, React Testing Library (RTL), Jest, Unit Test, Amazon Web Services (AWS)

## Education

### University of British Columbia

Bachelor of Applied Science in Electrical Engineering

Vancouver, Canada

Sep 2020 - May 2025

## Work Experience

### Redbrick

Full Stack Developer Co-op

Vancouver, Canada

Jan 2024 - Apr 2024

- Developed a Chrome extension with **React** and **TypeScript** to seamlessly collect and transmit user data for the Digital Scope project—a cutting-edge carbon emissions calculator used by over 100,000 users in the sustainability sector.
- Designed and implemented efficient **RESTful APIs** with **Django Rest Framework**, optimizing data transmission between the server and a **PostgreSQL** database.
- Built scalable, serverless infrastructure using **AWS** services (RDS, SQS, Secrets Manager, S3), capable of handling thousands of concurrent data requests daily, supporting the product's high-demand user base.
- Implemented comprehensive test cases for **Django** API endpoints using **Python's unittest** module, enhancing reliability by verifying request handling, response status codes, and error scenarios, leading to a 15% reduction in error rates.

### ConeTec

Software Development Co-op

Vancouver, Canada

May 2023 - Dec 2023

- Collaborated with a cross-functional team to develop a responsive desktop application using **React**, **ElectronJS** and **Fluent UI**, resulting in improved user experience and on-time delivery, while utilizing Git/GitHub for project management and effective communication.
- Utilized **React Hooks** and **Redux** for effective state management, implementing custom features and components to enhance functionality and scalability for handling large datasets.
- Implemented industry best practices for data processing, utilizing **TypeScript** and **React** components to seamlessly integrate backend web services with **NodeJS**, ensuring reliable communication and data flow between frontend and backend systems.
- Conducted unit testing for **React** components using **Jest** and **RTL**, achieving over 95% test coverage, significantly enhancing code quality.

### Cerebrum Tech

Software Engineer Intern

Istanbul, Turkey

May 2022 - Aug 2022

- Enhanced mining operations by contributing to the development of an NFT Marketplace using **React**, **TypeScript**, **styled-components**, and the Solana web3 library, resulting in an impressive 15% boost in overall efficiency.
- Designed and implemented authentication pages for mobile platforms with **React Native**, leveraging **React Hooks** for streamlined state management and interactivity, resulting in a significant 30% increase in app downloads and an enhanced user experience.
- Collaborated with team members in an agile environment, utilizing **Git/GitHub** for project management and version control, while consistently organizing and leading weekly meetings with colleagues and supervisors to ensure the punctual delivery of projects.

## Technical Projects

### Chat Application

Personal Project

Dec 2024

- Developed a full-stack chat application using **Next.js** for the frontend, **Express.js** and **Node.js** for the backend, and **PostgreSQL** with **SQL** queries for persistent data storage, enabling user authentication, real-time messaging, and a fully responsive interface.
- Designed and implemented core features like persistent message history, contact filtering, and message deletion with confirmation window, using **Tailwind CSS** for a visually appealing and intuitive UI.
- Integrated advanced functionalities such as emoji support, real-time user status updates, and scalable **RESTful APIs** to enable dynamic user interactions.

### Coin Tracker Application

Personal Project

September 2023

- Designed a responsive web application with **React** to track cryptocurrency prices in real-time, featuring sophisticated search and sorting functionalities for filtering by name or symbol and identifying market leaders.
- Leveraged React's state management and **Material UI** components to deliver a seamless, user-friendly interface with enhanced aesthetics and functionality.

### Multithreaded Snake Game

Group Project

Mar 2023 - Apr 2023

- Collaborated with team members to design and develop a snake game with a graphical user interface using the **Tkinter** library in **Python**, implementing multi-threading to provide a smoother and more responsive user experience.
- Designed and implemented a **UDP**-based client-server model in **Python**, utilizing socket and time modules to facilitate ping message exchange, calculate round-trip time, and emulate network delays and packet loss with randomness.