Mehmet Berke Karadayi

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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, DRF
Technologies and Tools	Git/Github, PostgreSQL, React Testing Library (RTL), Jest, Unit Test, Amazon Web Services (AWS)

Education

University of British Columbia *Vancouver, Canada*
Bachelor of Applied Science in Electrical Engineering *Sep 2020 - May 2025*

Work Experience

Redbrick *Vancouver, Canada*
Full Stack Developer Co-op *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, improving data transmission between the server and a PostgreSQL database while ensuring high performance and scalability.
- 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 *Vancouver, Canada*
Software Development Co-op *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 by designing custom features and components that streamlined user interactions, enhanced performance, and ensured scalability for managing 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 *Istanbul, Turkey*
Software Engineer Intern *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 functionalities such as emoji support, real-time status updates, and scalable RESTful APIs to enable dynamic user interactions.

Coin Tracker Application - Personal Project *September, 2024*

- 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 functionality, integrating efficient API handling for real-time data updates.

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.