

# Zhandos Brown

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## EDUCATION

### Boston University

B.A., Pure Mathematics & Computer Science

Boston, MA (open to relocate)

Graduation Date: May 2026

## SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, Java, Swift

**Frameworks:** React.js, React Native, Next.js, Flask, SwiftUI, Bootstrap, FastAPI

**Technologies:** Git, Expo Go, Firebase, Clerk, Azure, REST API, Figma, TensorFlow, NumPy, OpenCV

**Languages:** English (Native), Kazakh (Native), Russian (Native), Turkish (Intermediate)

**Interests:** Mobile Dev., Machine Learning, Artificial Intelligence, Robotics, Biotech., Quantum Computing

## WORK EXPERIENCE

### Spark! Innovation Fellowship

Boston, MA

Software Developer

Jan 2024 - May 2024

- Developed DrivMi, fully functional designated driver app in React Native, utilizing Firebase for secure database storage, and integrating Google Maps for real-time location tracking and route planning.
- Optimized custom driver matching algorithm with Node.js, improving response times by 40% and enhancing user satisfaction by matching drivers based on proximity, availability, and ratings.

### 80edays - ChargeHotels

Boston, MA

iOS Software Engineer Intern

Apr 2023 - Dec 2023

- Led development of iOS application in designing and deploying for Europe's largest rally event, using SwiftUI, UIKit, and Combine for a robust and user-friendly interface.
- Integrated multiple APIs and developed backend solutions using Node.js, supporting functionalities like hotel reservations, car model details, and license verifications, improving operational efficiency.

### 80edays - ChargeHotels

Boston, MA

Software Engineer Intern

Feb 2023 - Mar 2023

- Collaborated in planning and architecture design of high-profile mobile app for major European rally event, participating in technology stack decisions and initial API development using Node.js and Express.
- Engineered secure authentication systems using OAuth and JWT for robust user experience and session management, alongside integrating third-party services like Firebase for notifications and analytics.

## PROJECT EXPERIENCE

### Cortex Motion Detector

Boston, MA

[devpost.com/software/cortexmd](https://devpost.com/software/cortexmd)

Nov 2024 - Nov 2024

- Developed motion detection mobile app for neurological and musculoskeletal disorder analysis using MoveNet and TensorFlow ML models, enabling accurate analysis of user movement patterns.
- Designed the frontend infrastructure with React Native in TypeScript and bun package manager, while engineering backend functionality with Flask and MySQL.

### Muscle Intelligence

Boston, MA

[devpost.com/software/muscle-intelligence](https://devpost.com/software/muscle-intelligence)

Oct 2024 - Oct 2024

- Created mobile fitness app that utilizes computer vision and machine learning to provide real-time feedback, helping users improve exercise form and optimize performance.
- Built models with TensorFlow and OpenCV for precise form analysis, with React Native for frontend.