Zhandos Brown

github.com/zhandolia | 857-313-8727 | zhandos@bu.edu | linkedin.com/in/zhanbrown

EDUCATION

Boston University   **Boston, MA (open to relocate)**
B.A., Applied Mathematics   *Graduation Date: May 2026*

SKILLS

Languages: Python, JavaScript, TypeScript, Java, Swift

Frameworks: React.js, React Native, Next.js, Flask, SwiftUl, 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: Software Development, Machine Learning, AI, Robotics, Quantum Computing, 3D Graphics

WORK EXPERIENCE

Fidelity Investments   **Merrimack, NH**
Mobile Engineer Intern   *Jun 2025 - Aug 2025*

- Engineered high-performance, scalable document rendering engine utilizing multi-dimensional content analysis and predictive layout estimation, resulting in processing of hierarchical data structures.
- Redesigned legacy monolithic iOS architecture into modular microservice-style Swift components with declarative patterns, enabling real-time content flow.

80edays - ChargeHotels   **Boston, MA**
Mobile Engineer Intern   *Jun 2024 - Aug 2024*

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

Spark! Innovation Apprenticeship   **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.

PROJECT EXPERIENCE

Cortex Motion Detector   **Boston, MA**
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   *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.