# Zhandos Brown

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## Education

**Boston University, Massachusetts** **Expected May 2026**
*Bachelor of Arts, Computer Science* *Boston, MA*

## Experience

**80edays - ChargeHotels** **Apr 2023 – Present**
*Full Stack iOS Development Intern* *Remote*

- Led the development of a feature-rich **iOS** application for a major electric vehicle rally event, leveraging **Swift** and **Figma** to create a robust and user-friendly interface. Focused on integrating real-time tracking, event updates, and participant engagement to deliver a seamless user experience.
- Implemented a comprehensive API integration, fetching and incorporating data for over 5000 hotels across Europe into the app database, thereby greatly enhancing the app's functionality and user options. This key feature significantly improved the application's utility for event participants and supporters, facilitating better planning and decision-making.

**80edays - EcoRoute** **Jan 2023 – Mar 2023**
*Software Engineering Intern* *Remote*

- Spearheaded the integration of the **Google Maps API** with **Django** and **React**, optimizing route planning for electric vehicles. Integration improved user experience by providing real-time data on https://www.overleaf.com/project/6529c3bfc43e205a47186c9dcharging stations and traffic conditions.
- Utilized **Python** and **Flask** to efficiently process and manage data, resulting in a more robust and scalable backend. Identified and resolved over 20 failed tests weekly by conducting rigorous root cause analysis, ensuring the rapid and accurate resolution of issues to maintain software quality and reliability.

**Global Health Research Center of Central Asia** **Aug 2020 – Dec 2021**
*Full Stack Web Development Intern* *Almaty, Kazakhstan*

- Engineered a comprehensive and user-centric website from the ground up, employing **WordPress** coupled with advanced **JavaScript**, **HTML**, and **CSS** to create a dynamic and responsive online presence.
- Spearheaded the digitization and integration of an extensive research archive, meticulously cataloging and incorporating 628 unpublished articles from 2015-2020, thereby enhancing the accessibility and dissemination of valuable research data.

## Projects

**OQIGA.AI** | *React.js, Flask, IPython, Google Colab* **oqiga-ai.vercel.app**

- Engineered a pioneering educational platform using **React.js** for frontend and **Flask** for backend, featuring interactive storytelling with parental voice integration achieved through **IPython** and **Google Colab** with Jupyter Notebook.
- Achieved second place at the **MakeHarvard** 2024 hackathon, demonstrating the project's innovation and impact in educational technology, and garnering significant interest and acclaim.

**MyGapMentor** | *React.js, Flask* **mygapmentor.vercel.app**

- Developed MyGapMentor, a dynamic **OpenAI API**-powered platform tailored for gap year students, offering bespoke coaching, strategic opportunity identification, and inventive approaches to bolster university application success.
- Garnered recognition and funding for MyGapMentor, debuting it as a standout project at the nFactorial Incubator 2023, a premier A.I.-focused web development boot camp, chosen from over 4500 candidates. Successfully secured over $50,000 in support from **Microsoft for Startups Founders Hub**, propelling the project's growth.

**GeoTab** | *JavaScript, HTML/CSS* **shorturl.at/nxSW8**

- Designed and launched a **Chrome extension** game for geography education. It invites users to identify flags, capitals, and their locations of countries worldwide, effectively blending leisure with the enrichment of geographical knowledge.
- Achieved a notable accomplishment by securing a place within the top 4.5% of over 4,000 candidates for the nFactorial Incubator 2022, a web development boot camp with an innovative project development.

**N-Body Simulation** | *Java* **github.com/zhandolia/nbody**

- Enhanced the solar system simulation using **Java**, blending background imagery, studio-quality sound, and prototypical planet models with mathematical precision. Further enhanced by integrating real astronomical data and interactive features, the project achieved greater scientific accuracy and user engagement in visualizing orbital mechanics.

## Technical Skills

**Programming Languages**: Python, Java, Swift, JavaScript, TypeScript, HTML/CSS
**Framework**: React.js, Next.js, Flask, Django, Tailwind CSS, LangChain, SvelteKit
**Technologies**: Git, Figma, MongoDB, WordPress, Heroku, Vercel, Azure, VS Code, Xcode, Excel
**Languages**: English (Native), Kazakh (Native), Russian (Native), Kyrgyz (Intermediate), Turkish (Intermediate)