

# Rezhan Fatah

Boston, MA | [rezhanfatah@brandeis.edu](mailto:rezhanfatah@brandeis.edu) | (781)-571-6016 | [LinkedIn](#) | [Github](#)

## EDUCATION

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**Brandeis University**, Waltham, MA

*Expected Graduation: May 2027*

**B.S. Computer Science, B.A. Economics**

- Computer Science Undergraduate Department Representative
- **Relevant coursework:** Database Management Systems, Generative AI Applications, Machine Learning for Economic Analysis, Natural Language Processing, Mobile & Web Development

## PROJECT EXPERIENCE

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MeetIn | *Javascript, CSS, HTML*

- Developed a peer-to-peer video chat application using WebRTC, enabling direct real-time video and audio communication between users.
- Integrated dynamic media stream handling and DOM manipulation to support multi-user video streams and interactive user interfaces.

Outfitted | *TypeScript, Gemini API, Prompt Engineering*

- **Won 3rd place** at the **Google DeepMind × Remark Hackathon** for technical execution and product innovation.
- Built an **end-to-end AI-driven analytics and content generation platform** for **DTC marketing**, enabling brands to generate personalized, AI-produced catalogs of users wearing products from their inventory.
- Integrated the **Gemini API** with custom **prompt engineering pipelines** and end-to-end workflows to ensure brand consistency, personalization, and market-ready visual outputs

## SKILLS

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- *Programming Languages:* **Python, Java, JavaScript, TypeScript, SQL, HTML, CSS**
- *Frameworks & Libraries:* **React.js, React Native, Flask, TensorFlow, scikit-learn, pandas, NumPy**
- *Tools & Other Skills:* **AWS, Microsoft Azure, MongoDB, Firebase, Supabase, RESTful APIs, JSON, CRUD Operations**

## EXPERIENCE

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**Summer Analyst** | *May 2025 - August 2025*

*Brandeis University, Waltham, MA*

- Supported portfolio management for a **\$1.3B university endowment** by performing equity and macroeconomic analysis, contributing to investment recommendations for a diversified, yield-focused strategy.
- Redesigned the Endowment's stock distribution policy by analyzing 10 years of data from **140+** companies, generating a **93 bps increase** in stock distribution returns versus the prior strategy.
- Identified and mapped **100+ Private Equity** firms across Europe specializing in technology investments aligned with the Endowment's fund size, target historical returns, and portfolio exposure requirements.
- **Recompiled and analyzed 24 quarters** of the Endowment's public holdings by market cap and industry, delivering insights that clarified investment trends and portfolio evolution.

**Research Fellow** | *Jan 2025 - Present*

*Brandeis University, Waltham, MA*

- Extracted, Cleaned, Analyzed **2000+ data points** using **Python, Excel, and SQL**
- Constructed scalable and maintainable **NLP text classification pipelines** using **BERTopic** and **Scikit-learn** classifiers.
- Applied **clustering algorithms** on large textual datasets using a bag-of-words approach, mapping word vectors into topic trees to identify and organize themes, improving data quality and topic classification.

**IT Help Desk Technician** | *Jan 2025 - Present*

*Brandeis University, Waltham, MA*

- Provided responsive technical support in person, by phone, and ticketing systems to a university of **5,000** members, addressing **600-800** tickets per month with a focus on timely resolution and customer satisfaction.
- **Troubleshoot and diagnosed** technical issues efficiently, escalated complex problems to senior team members while maintaining clear and consistent communication with end-users.
- **Maintained data security** and privacy by implementing user authentication protocols and following best practices.
- Diagnosed computers for malware and resolved infections using anti-malware software, ensuring optimal device performance and data security.

**Maker Space Technical Coordinator** | *October 2023 - January 2025*

*Brandeis University, Waltham, MA*

- Conducted **50+** introductory level workshops to digital fabrication, 3D printing, and CAD, training **200+** students, faculty, and staff to proficiency on various maker space technologies.
- Consulted on various stakeholders' research and entrepreneurial projects regarding technology stacks, design, and implementation methods.
- Designed and implemented an **end-to-end** device maintenance workflow that **decreased** our 3D printer **downtimes by 34%** by aggregating and analyzing **150+** crash reports.