



TELMEN BAYARBAATAR

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EDUCATION

University of Maryland

B.S. in Computer Science

Montgomery College

A.A. in Computer Science; GPA: 3.9 | Dean's List 4x, STEM & SMLP Scholar, RaptorTank 1st Place

- **Relevant Coursework:** Data Structures, Calculus, Statistics, Discrete Structures, Linear Algebra, Computer Systems
- **Certifications:** Machine Learning by Stanford, AI4ALL Ignite Fellow, Cognizant-Elevate

Expected June 2027

College Park, MD

May 2025

Rockville, MD

EXPERIENCE

Together For You, Inc.

Aug. 2024

Product Engineering Intern

- Co-leading UI/UX design and **React Native** development for the Havii mobile app.

Forkcast | [Website](#)

June 2025

Co-Founder

- Built a scalable platform enabling restaurants to predict demand and optimize inventory decisions.
- Implemented an interactive analytics dashboard with **React** and migrated the database to **PostgreSQL**.
- Designed a modular API with public/protected routes, **Clerk** middleware and **BullMQ** job queues.

Montgomery College

Aug. 2024 – May 2025

Undergraduate Research Assistant

- Programmed an Nearest-Neighbor-Nim game solving algorithm on a 3 vertex graph in **Java** and **Javascript**.
- Leveraged memoization, dynamic state-space pruning, and efficient key generation for game state tracking.
- Automated analysis of **600,000+** game configurations states with Excel export via **Apache POI** for finding patterns

TSESSEBE Technologies

Nov. 2024 – Feb. 2025

Software Development Intern

- Enhanced backend APIs and authentication with Express.js, and Firebase Auth, supporting **300+** workshop users.
- Integrated **Stripe API** into a **RESTful** Express backend to support seamless premium workshop payments.

LEADERSHIP

Raptors Who Code

Nov. 2024 - May 2025

ACM Chapter & Club President

- Hosted MC's inaugural hackathon with **100+ registrations**; recognized as The Best Club Event of the Year.
- Organized all aspects of planning, sponsorship outreach, and catering; received a total of **\$3,000** in funding.
- Led biweekly LeetCode sessions and a Guest Speaker Series featuring tech professionals for **450+** members.

PROJECTS

[TDA + N-BEATS Forecasting Model](#) | Python, Pytorch, Ripser, yfinance, Numpy, Pandas, Matplotlib | **AI4ALL'25**

- Improved baseline **N-BEATS** model performance with **Topological Data Analysis**, employing persistent homology
- Achieved measurable improvement, with reductions in **RMSE**, **MAE**, **MAPE**, demonstrating predictive accuracy.

[SONE - Fidelity Investments Best DEI Hack](#) | React Native, Firebase, Expo, Typescript | **HopHacks'24**

- Cross-platform app enabling patients with limited mobility to communicate with nurses via push notifications.
- Implemented smooth sign-in/sign-out logic and streamlined authentication processes using **Firebase**.

[IMGtotal](#) | Google Calendar API, React, Node.js, Tesseract.js, OpenAI, Supabase

- Built using **Tesseract.js**, and **OpenAI API** to extract event details from **JPG** or **PNG** and sync with Google Calendar.
- Integrated **Supabase** for authentication, drag-and-drop uploads, OCR, AI-powered data parsing.

TECHNICAL SKILLS

Languages: Python, Javascript, Typescript, Java, C/C++, SQL, Bash

Tools: Git, Docker, AWS (EC2, S3), Vercel, Figma, Jira, Stripe, Clerk, Firebase, Postman, Jupyter Notebook

DB & Backend Technologies: MongoDB, Node.js, Express.js, PostgreSQL, Prisma, Supabase

Python libraries & Tools: TensorFlow, Pytorch, Matplotlib, NumPy, Pandas, ScikitLearn, Hugging Face