TELMEN BAYARBAATAR

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EDUCATION

University of Maryland	**Expected June 2027**
B.S. in Computer Science	*College Park, MD*
Montgomery College	**May 2025**
*A.A. in Computer Science; GPA: 3.9	Dean's List 4x, STEM & SMLP Scholar, RaptorTank 1st Place*	*Rockville, MD*

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

EXPERIENCE

Together For You, Inc.	Aug. 2025
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**.

IMGtocal | *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