TELMEN BAYARBAATAR

240-789-9019 | bayarakh@gmail.com | linkedin.com/in/telmenbayarbaatar/ | github.com/TelmenBay | telmen.info

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

TECHNICAL SKILLS

Languages: Python, Javascript, Java, C++, C, Typescript, Swift, HTML/CSS, Bash
Tools: Git, Gitlab, Docker, AWS (EC2, S3), Vercel, Figma, Jira, Stripe, Firebase, Postman, Jupyter Notebook
DB & Backend Technologies: Node.js, MongoDB, PostgreSQL, Prisma, Supabase, SQL, Express.js
Python libraries & Tools: TensorFlow, PyTorch, Matplotlib, NumPy, Pandas, ScikitLearn, Hugging Face

EXPERIENCE

Forkcast | Website — June 2025 – Present
Software Engineer & Co-Founder
- Built an automated sales forecasting pipeline with **Python**, leveraging feature engineering and ensemble models (**XGBoost, LightGBM, RF**) for weekly demand and revenue predictions.
- Designed a modular API with public/protected routes, **Clerk** middleware and **BullMQ** job queues (Redis).
- Exposed forecasting/ML endpoints via **FastAPI**, containerized with **Docker** and orchestrated alongside Node API

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
- Built a dashboard using **Node.js**, **Express.js**, and **Firebase Auth** for managing workshop access and user roles.
- 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

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**.

Neural Network - Digit Recognizer | *Python, Pandas, NumPy, Matplotlib, Kaggle*
- Built a neural network from scratch using **NumPy** and **Pandas** to classify digits from a **Kaggle MNIST dataset**.
- Implemented forward/backward propagation, gradient descent, and activation functions (**ReLU**, **Softmax**), achieving **85.6%** accuracy on the dev set and **84.7%** on training, with performance visualized via **Matplotlib**.

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.