TELMEN BAYARBAATAR

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EDUCATION

University of Maryland — **Expected May 2027**
B.S. in Computer Science — *College Park, MD*

Montgomery College — **Expected May 2025**
A.A. in Computer Science; GPA: 3.92 — *Rockville, MD*

- **Relevant Coursework**: Computer Science I & II (Java), Calculus II, Statistics, Discrete Structures, Linear Algebra
- **Leadership**: Raptors Who Code - President, STEM and SMLP Scholar, SGA Senator, MC LEADS, STEM Ambassador

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, HTML/CSS
Developer Tools: Git, AWS EC2, Cursor, Eclipse, Vercel, Figma, Clerk Auth, Stripe, Firebase

EXPERIENCE

Montgomery College — Aug. 2024 – Present
Undergraduate Research Assistant

- Built a Nim game-solving algorithm using **Java** to explore solutions for variations like **Nearest Neighbor Nim**.
- Converted the algorithm to **JavaScript** and **React** to enhance accessibility and deploy it as a web-based calculator.
- Used **Next.js** and deployed the application on **Vercel** to provide users with a responsive online Nim calculator.

TSESSEBE Technologies — Nov. 2024 – Feb. 2025
Software Development Intern

- Developed a dashboard interface for workshops, enabling secure access with **Firebase authentication**.
- Integrated **Stripe API**, allowing users to purchase premium workshops seamlessly and securely.

Headstarter AI — Aug. 2024 - Oct. 2024
Software Engineer Fellowship

- Built **AI Apps** using **Next.js, OpenAI, StripeAPI** with **98%** accuracy as seen by **100+** users.
- Developed projects from design to deployment leading **4+** engineering fellows using **MVC design patterns**.
- Coached by Amazon, Bloomberg, and Capital One engineers on **Agile, CI/CD, Git,** and **microservice patterns**.

Webacy — June 2024 – July 2024
Blockchain and Web3 Security Research Extern

- Conducted a thorough analysis of emerging startups and non-mainstream competitors in the **Web3 security space**.
- Enacted robust security protocols to proactively address vulnerabilities within **blockchain-driven systems**.
- Directed hands-on instructional sessions aimed at imparting mastery in **blockchain protocols**, fortified **smart contract** security, and the intricacies of **decentralized applications** *(dApps)*.

PROJECTS

SONE - Fidelity Investments Best DEI Hack | *React Native, Firebase, Expo, Typescript*

- 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**.

ConvoFlash | *Javascript, Firebase, Stripe, Clerk Auth, OpenAI, Next.js, Node.js, React, Vercel*

- AI-powered tool generating custom flashcards for learning basic conversation in over **99+** languages.
- Integrated **Firebase** for real-time data, **StripeAPI** for secure payments, and deployed on **Vercel** for seamless scalability.

AI Amazon Customer Support | *Javascript, Node.js, Next.js, React, Material UI, OpenAI*

- Built a responsive support bot using **React**, **Material-UI**, and **OpenAI API** for Amazon policy inquiries.
- Developed a secure, scalable backend with **Node.js** and **Next.js**, ensuring efficient API handling and data security.

System of Linear Equation Calculator | *Python, NumPy, Pandas*

- Created a Python-based calculator using **NumPy** for solving systems of equations with high efficiency.
- Applied the **Gaussian elimination method** to solve complex linear systems with **100%** accuracy across diverse datasets.