

# TELMEN BAYARBAATAR

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## EDUCATION

### Montgomery College

Associate of Arts in Computer Science

May 2025

Rockville, MD

- **Relevant Coursework:** Intro to Programming (C++), Computer Science I (Java), Calculus II, Statistics
- **Extracurricular:** STEM and SMLP Scholar, SGA Senator, MC LEADS, STEM Ambassadors, Raptors Who Code VP

## EXPERIENCE

### Montgomery College

Incoming Undergraduate Research Assistant

Aug. 2024 – Present

### Headstarter AI

Software Engineer Fellowship

Aug. 2024 - Present

- Built 5+ **AI Apps** and **APIs** 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**.
- Solved **DSA** problems and had **MOCK technical interviews** to enhance problem-solving skill and coding efficiency.

### Webacy

Blockchain and Web3 Security Research Extern

June 2024 – July 2024

Remote

- 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)**.
- Analyzed competitors such as **Nethermind** and **SolidityScan** to develop strategic recommendations that **Webacy** should consider exploring.

## PROJECTS

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

Aug. 2024

- Developed an AI-powered tool that generates custom flashcards for over **99+** languages, utilizing **OpenAI API**.
- Utilized **Firebase** for real-time database integration, and integrated **StripeAPI** for secure payment processing.
- Deployed the application on **Vercel**, and configured **Clerk Auth** to streamline user sign-up and login processes.
- Delivered educational content to over **500+ users**, and gained **60+ sign-ups** within the first month of launch.

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

Aug. 2024

- Developed a responsive customer support bot using **React** and **Material-UI**, providing users with instant, accurate answers to Amazon policy inquiries.
- Integrated **OpenAI API** to enable natural language processing and generate context-aware responses, enhancing user interaction and satisfaction.
- Built the backend with **Node.js** and **Next.js**, creating a scalable and efficient server-side environment that handled API requests and user data securely.

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

July 2023

- Developed a robust Python-based calculator for solving systems of linear equations, leveraging **NumPy** and **Pandas** libraries for efficient computation and data handling.
- Utilized the **Gaussian elimination method** to systematically solve complex systems of equations, demonstrating a strong grasp of linear algebra concepts.
- Achieved a **100%** accuracy rate in solving over **1,000+** diverse linear equation systems, ranging from simple 2x2 to complex multi-variable scenarios.

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Next.js, JUnit, Material-UI, Firebase

**Developer Tools:** Git, Docker, AWS EC2, VS Code, Eclipse, Jupyter Lab, Vercel, Figma, OpenAI, Clerk Auth, Stripe

**Libraries:** Pandas, NumPy