

# Erdene Batbayar

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## EDUCATION

### Northern Virginia Community College

Associate's in Computer Science

Sterling, VA

January 2024 – May 2026

### George Mason University

Bachelor in Computer Science

Fairfax, VA

August 2026 – May 2028

## EXPERIENCE

### Full-Stack Developer Intern

MindSpark Agency

June 2022 – Sep 2023

Ulaanbaatar, MN

- Optimized backend operations by implementing Docker and Prisma, resulting in a 30% increase in database response time for high-traffic applications.
- Developed adaptive web scraping solutions in JavaScript, ensuring data accuracy and delivering timely alerts despite frequent structural changes to target websites.
- Enhanced user experience by designing and refining key frontend features with Next.js, reducing bounce rates by 25% and improving load efficiency.

### Tech Club - Slope Game Development

Northern Virginia Community College

Sep. 2024 – Present

Sterling, VA

- Enhanced visual quality and user experience by contributing to shader development and optimizing rendering processes.
- Developed and debugged complex shaders in a ray-marched 3D game built with OpenGL and Java, collaborating with a team to optimize game performance for smoother gameplay.

## PROJECTS

### AI Review Summarizer | Python, Gemini API, NLP, Streamlit

June 2024 – July 2024

- Engineered an AI-driven review summarizer leveraging Natural Language Processing (NLP) to analyze and generate concise summaries of product and service reviews.
- Boosted efficiency by significantly reducing the time needed to process large volumes of reviews, enabling users to extract valuable insights within seconds.

### Online Banking System | Plaid API, Dwolla API, Next.js, ShadcnUI, TailwindCSS, Appwrite July 2024 – August 2024

- Built a secure online banking platform using Next.js and Shadcn, enabling users to link accounts, monitor balances, and process transactions seamlessly with Plaid and Dwolla API.
- Designed a responsive UI that enhanced accessibility across devices, reducing user errors by 20%.
- Integrated security measures, including multi-factor authentication, to safeguard user data and comply with industry standards.

### Tech Club Event Reminder Bot | Python, Google Sheets API, Discord API, AI

Oct 2024 – Nov 2024

- Designed and deployed an automated Discord bot to deliver bi-weekly event reminders sourced from Google Sheets, reducing manual workload by 80%.
- Increased event participation by 40% through effective scheduling and dynamic, data-driven reminders.
- Streamlined deployment by integrating continuous delivery pipelines with TravisCI, automating plugin builds upon new releases.
- Enhanced community engagement by integrating AI capabilities to personalize announcements and provide intelligent, interactive responses.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, SQL (Postgres), JavaScript, HTML/CSS, Kotlin

**Frontend Frameworks:** React, Material-UI, Three.js, Next.js

**Backend Tools:** Node.js, Flask, FastAPI, Docker, AWS, GCP **Tools:** Git, VS Code, IntelliJ, PyCharm

**Libraries:** pandas, NumPy, Matplotlib, pyppeteer, streamlit