Erdene Batbayar

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EDUCATION

Northern Virginia Community College (NVCC)   Sterling, VA
A.S. in Computer Science   *Jan 2024 – May 2026*
Intended Transfer: Ivy League Institution (e.g., Cornell, Columbia)   United States
B.S. in Computer Science (Expected)   *Aug 2026 – May 2028*

HONORS & AWARDS

President's List (2 Semesters)
NVCC

Elected President, NVCC Tech Club   2025 – Present
NVCC

EXPERIENCE

Full-Stack Developer Intern   June 2022 – Sep 2023
MindSpark Agency   *Ulaanbaatar, Mongolia*
  ∗ Optimized backend with **Docker** and **Prisma**, improving response time by 30%.
  ∗ Developed scraping bots in **JavaScript** to track changes on dynamic sites.
  ∗ Improved frontend UX with **Next.js**, reducing bounce rate by 25%.

Sushi & Hibachi Chef   Jan 2021 – Jul 2022
Sushi Ichi   *Ulaanbaatar, Mongolia*
  ∗ Performed live cooking shows and maintained high presentation standards.
  ∗ Demonstrated teamwork and time management in a fast-paced kitchen.

LEADERSHIP & INVOLVEMENT

President, Tech Club   Feb 2025 – Present
Northern Virginia Community College   *Sterling, VA*

- Led 20+ members in weekly tech workshops and hands-on coding sessions.
- Built the club website using **Next.js**, **Clerk Auth**, and **Appwrite**.
- Established partnerships with tech firms for guest lectures and internship pathways.

GNEC Hackathon Participant   May 2025
Global NGO Hackathon (EqualPayNow)

- Built a salary transparency app for SDG 5 & 10 using **MongoDB**, **Next.js**, and **Clerk**.
- Presented to a panel of global judges, focusing on social impact and real-time analytics.
- GitHub

PROJECTS

AI Review Summarizer | *Python, Gemini API, NLP*   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.

Drone Control System | *Arduino Nano, NRF24L01, C++*   May 2025 – Present

- Built a wireless drone controller using Arduino and NRF modules for joystick-based remote control.
- Simulated motor control with PWM outputs and validated communication with dual Arduino setup.
- GitHub

EqualPayNow | *Next.js, Clerk, MongoDB, Express.js*   July 2024 – Aug. 2024

- Built for GNEC Hackathon: Salary transparency app supporting SDG 5 & 10.
- Designed a responsive UI that enhanced accessibility across devices, reducing user errors by 20%.
- GitHub

Tech Club Webpage | *Next.js, Appwrite, Clerk Auth, ShadcnUI, Tailwind*   April 2025 – Present
- Developed a fully responsive and dynamic modern website for the Tech Club to showcase events, projects, and member contributions.
- Implemented authentication and role-based access control using Clerk Auth to enable admin-only content management.
- Integrated Appwrite backend for secure database operations and seamless content updates.

TECHNICAL SKILLS

Programming Languages:Java, Python, C, JavaScript, SQL (Postgres), HTML/CSS, Kotlin
Frontend: React, Next.js, React Native, Three.js, Tailwind CSS, Material-UI
Backend:Node.js, Flask, FastAPI, Appwrite, Docker, REST APIs
Cloud & DevOps: AWS, GCP, Firebase, Docker, Vercel, Netlify
Databases: PostgreSQL (NeonDB), MongoDB, SQLite
Tools: Git, GitHub, VS Code, IntelliJ, PyCharm, Postman, Figma
Libraries: pandas, NumPy, Matplotlib, pyppeteer, streamlit

RELEVANT COURSEWORK

Data Structures and Algorithms, Discrete Mathematics, Web Development, Logic, AI Concepts, Software Engineering, Computer Architecture