

Bilguun Tegshbayar

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EDUCATION

McGill University

Bachelor of Engineering in Software Engineering (Co-op)

Montreal, QC

Expected Grad: May 2027

TECHNICAL SKILLS

- **Languages:** Python, Java, PHP, JavaScript, Typescript
- **Frameworks:** Django, Flask, Java Spring Boot, Laravel, Ajax, React, TailwindCSS, Angular
- **Databases:** MySQL, MongoDB, Firebase Firestore, PostgreSQL, Redis
- **DevOps & Cloud:** Docker, AWS EC2, Auth0, Nginx, Gunicorn, Kubernetes

PROFESSIONAL EXPERIENCE

Founder / CTO

VentureCircle (🌐 <https://venturecircle.io>)

April 2025 – Present

Montreal, QC

- Recipient of the McGill Engine TechAccel Award and participant of McGill Entrepreneurship DobsonCup Competition, recognizing an innovative platform addressing startup collaboration challenges within the entrepreneurial ecosystem.
- Implemented and deployed an enterprise-grade full-stack platform using Django REST Framework, Firebase Realtime Database, and Tailwind CSS, onboarding 200+ active entrepreneurs across various industries managing 80+ startup projects with integrated posting and project management.

Full-Stack Developer

CortexFlex (🌐 <https://cortexflex.org/>)

January 2026 – Present

Montreal, QC

- Developing an AI-powered cognitive training platform leveraging Django REST Framework and Zulip, designed to enhance mental performance through personalized brain exercises and real-time progress tracking.
- Collaborated with neuroscience researchers to integrate evidence-based cognitive assessment tools, translating scientific protocols into interactive web modules with real-time feedback mechanisms.

Front-end Developer

Insur LLC (🌐 <https://mobilife.mn>)

May 2024 – August 2024

Ulaanbaatar, Mongolia

- Engineered responsive insurance web applications serving 5,000+ users using Laravel MVC architecture, Docker containerization, and MySQL database optimization, reducing page load times by 40
- Implemented RESTful API endpoints and integrated third-party payment gateways, enabling seamless transaction processing for insurance premium payments.

PROJECTS

Vantage 🌐 | AI-powered voice assistant with immersive sci-fi interface

- Engineered a full-stack conversational AI application with real-time natural language processing, integrating Google Gemini AI API to deliver context-aware dialogue and intelligent response generation.
- Architected secure authentication and data persistence using Auth0 and MongoDB, enabling multi-user sessions with role-based access control and comprehensive conversation history tracking.

OS Interface Simulator 🌐 | Cross-platform UI replication with dynamic theming

- Implemented advanced JavaScript event handling and state management architecture to authentically replicate native OS behaviors including window management, application launching, and system notifications.
- Optimized rendering performance through lazy loading strategies and efficient DOM manipulation, maintaining consistent 60fps animations across all modern browsers and devices.

Banking System 🌐 | Enterprise-grade financial transaction platform

- Architected a comprehensive banking platform with secure user authentication, dynamic account management, real-time balance tracking, and detailed transaction history with audit trails.
- Developed robust fund transfer system with multi-layer validation, error handling, and transaction rollback capabilities to ensure ACID compliance and data integrity across all operations.
- Implemented role-based access control (RBAC) with encryption protocols and security best practices to protect sensitive financial data and prevent unauthorized access or fraudulent activities.