BALJINNYAM PUNTSAGNOROV

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EDUCATION

ADELPHI UNIVERSITY Garden City, NY
Bachelor of Science (BS), **Computer Science** (Track: Software Engineering), GPA 3.99, Expected December 2025
Honors & Awards:
- o Dean's List, Fall 2022 - Fall 2025 (The College of Arts and Sciences Dean's Student Circle 2024)
- o Top Ten - Wells Fargo Early Talent Competition (Fall 2025)
- o National Award, Presidential Scholarship, and Supplemental Presidential Scholarship
- o International Math & Science Olympiad (IMSO) - 3rd Place (2016)

TECHNICAL SKILLS

Languages: Java, JavaScript, C, C++, Python, SQL, HTML, CSS
Frameworks & Libraries: Spring Boot, Node.js, React, TypeScript, Flask, Tailwind CSS
Cloud & Infrastructure: AWS (Lambda, S3, API Gateway, CloudFront), Google Cloud, Docker, CI/CD, GitHub
Databases: Oracle, PostgreSQL, MongoDB, DynamoDB, MySQL
Tools & Others: Git, GitHub, Docker, Firebase, Stripe, Google Maps Platform, JIRA, Figma, REST APIs, Google Workspace

TEACHING EXPERIENCE

ADELPHI UNIVERSITY Garden City, NY
Teaching Assistant - Computer Science January 2023 - present
- Mentored 100+ students in Algorithms, Data Structures, DBMS and Software Engineering, contributing to a 20% average performance increase per faculty assessment.
- Delivered one-on-one and class instruction and developed lab solutions in Java, Python, C/C++ and SQL; led group sessions focused on algorithm design, DSA problem-solving, and coding best practices.

INTERNSHIP EXPERIENCE

GOLOMT BANK LLC Mongolia
Software Developer Intern May - August 2025
- Upgraded Java Spring Boot dependencies across SocialPay, Mongolia's largest financial app, ensuring system compatibility and security compliance across all modules.
- Designed and implemented notification-service for card orders, improving user engagement and transaction transparency.
- Built middleware for AliPay+ User-Presented and Merchant-Presented Payment Integration, introducing a new cross-border payment feature for SocialPay
- Debugged production issues and optimized Oracle SQL queries, reducing query response times for high-traffic transactions.
- Enhanced Gitlab CI/CD pipelines by optimizing unit, integration, and functional tests, catching security vulnerabilities early.
- Researched Spring Boot Modulith vs Microservice architecture comparing to existing SocialPay architecture to present migration recommendations to the developer team.

PCDP LLC Mongolia
IT Intern Summers 2022 - 2024
- Redesigned and optimized the company WordPress site with custom themes/plugins to improve site speed and responsiveness
- Implemented advanced search and navigation using custom WordPress scripts and plugin optimizations to improve content accessibility and UX.
- Performed routine security updates, maintenance scripts, and troubleshooting to ensure uptime and data integrity.

PROJECTS

Campus Connect - Unified Online Student Marketplace
Tech Stack: React (Vite), Node.js (AWS Lambda), API Gateway, DynamoDB (GSIs), S3, CloudFront, AWS SAM, Stripe (Payments/Webhook), Google Maps Platform, Firebase (real-time chat) , TailwindCSS, Radix UI, JWT, Secrets Manager, Presigned S3 URLs
- Architected a stateless, serverless multi-seller marketplace (modular Lambda domains + shared layer) enabling horizontal scaling with minimal operational overhead.
- Implemented a custom JWT authorizer with Secrets Manager rotation, role-based access control, and sanitized payload surfaces (no raw storage keys) to reduce attack vectors.
- Engineered DynamoDB data models and GSIs for product search, per-seller order splitting, and atomic digital download counters; added index-fallback resilience for consistency.
- Built secure digital asset lifecycle: validated presigned S3 uploads (MIME/size/type), private document key enforcement, CloudFront distribution hardening, and gated post-payment downloads.
- Integrated Stripe Payment Intents + webhook reconciliation for idempotent order state transitions and audit timeline entries; prevented duplicate open orders with robust domain logic.
- Added real-time buyer/seller chat layer, notification system(Firebase) and Google Maps location selection to streamline physical exchanges, improving negotiation cycle time.
- Codified complete infrastructure with AWS SAM (functions, tables, CDN, secrets) and structured domain logging for deterministic environment parity and rapid incident triage.