

GORDON BIE

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EDUCATION

Northeastern University

Expected Graduation: May 2027

B.S., Management Information Systems & International Business, Data Science Minor

GPA: 3.71/4.00

Relevant Coursework: Calculus I, II, III, Data Mining, Databases, Stochastics, Statistics Discrete Structures, Information Visualization & Analytics, Linear Algebra, Machine Learning, Object Oriented Programming

TECHNICAL SKILLS

Programming & Query Languages: Python, C++, R, SQL, JavaScript, TypeScript, CSS/HTML, Cypher

Frameworks & Libraries: Sklearn, TensorFlow, PyTorch, Jax, NumPy, Pandas, Seaborn, FastAPI, React.js, Node.js

Tools: Git, Docker, Kubernetes, Android Studio, Expo, MLFlow, Keras, Tableau, PowerPoint, Excel, PowerShell, Linux

Databases: MySQL, PostgreSQL/pgvector, SQLite, MongoDB, Neo4j, Kuzu, AWS S3, OracleSQL 12

PROFESSIONAL EXPERIENCE

Flow Traders

New York, NY

Incoming Software Engineer Intern

Jul 2026 – Dec 2026

- Will work with traders to engineer HFT systems in Python, C, & C++ on Linux for digital assets trade execution

Skinapse Labs

Boston, MA

Chief Product Officer

Apr 2024 – Present

- Led product strategy & roadmap for AI health startup shaping end-to-end clinician & consumer user experiences
- Engineered, built & tested end-to-end CNN based clinical skin condition diagnostic engine (above 95% accuracy)
- Embedded HIPAA, GDPR, & SOC2 standards to unlock deployment across nationally regulated health systems
- Scaled cross-functional ops across clinicians, engineers & operators to support platform expansion in 3+ countries

Cortex

Boston, MA

AI Engineer

Jan 2026 – Apr 2026

- Led 8 engineers to build an internal AI knowledge graph tool in Python & Typescript using Docker, Git & Agile
- Architected novel GraphRAG pipeline combining Neo4j, pgvector embeddings, NER & cosine similarity search
- Built pipelines parsing PDFs & CSVs into structured JSON stored across Neo4j, S3 & Supabase PostgreSQL
- Reduced mechanical engineering design research process by 99% with natural language knowledge graph search

State Street Corporation

Boston, MA

AI Engineer Intern

Jul 2025 – Dec 2025

- Delivered a full-stack AI app using LLM Agents, FastAPI, & React to automate GAAP-compliant audit reports
- Built REST API routers & data pipelines transforming structured data from Databricks to enable LLM automation
- Implemented prompt evaluation in MLflow testing 10+ prompts via cos_sim, multi-LLM critique & auditor input
- Reduced audit report preparation from 2-3 weeks to 1 day, saving hundreds of hours for global risk & audit teams

RESEARCH & PROJECT EXPERIENCE

Northeastern University, College of Engineering

Boston, MA

ML Research Assistant | Prof. Xiaoning "Sarah" Jin

Oct 2025 – Present

- Developing a novel time series tokenizer for predictive maintenance on semiconductor manufacturing
- Benchmarking wavelet, Chronos-2 & LLM-based models (PatchTST, Time-LLM) in PyTorch on 500K+ rows
- Designing tokenizer vocabulary for cyclic multivariate sensor data, evaluating via MSE, DTW & RUL prediction
- Targeting \$10M in saved maintenance costs for Seagate Technologies; co-authoring peer-reviewed research paper

Unsprawl

Boston, MA

AI Engineer | Python, FastAPI, PostgreSQL, Alembic, Sk-learn, PyTorch

Sep 2025 – Dec 2025

- Built an AI-powered B2B SaaS app to deduplicate & extract tasks across workflow tools Slack, Jira, & Trello
- Engineered NLP task deduplication engine using SBERT embeddings, pgvector cosine similarity & Gemini
- Deployed full-stack platform in Python with Streamlit, FastAPI, PostgreSQL, Git, Docker & Alembic migrations
- Achieved 95% extraction accuracy & 91% deduplication rate, boosting product team workflow efficiency by 30%

ADDITIONAL INFORMATION

Interests: Burgers, Chess, Math (AIME, AMC & CEMC Top 5%), Poker (PLO & NLTH), Fashion, Horology, Singing

Languages: Native Mandarin, Professional Spanish, Intermediate French, Intermediate Japanese