NICHOLAS TIETJE

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EDUCATION

Northeastern University   *Boston, MA*
Master of Science in Computer Science, GPA 4.0/4.0   *Expected May 2026*
Bachelor of Science in Chemical Engineering and Computer Science, GPA 3.7/4.0   *Sept 2021 - May 2025*
- **Relevant Coursework:** Distributed Systems, Artificial Intelligence, Machine Learning, Deep Learning, Generative AI, Software Engineering, Mobile Application Development, Object Oriented Design, Algorithms & Data, Database Design

INTERNSHIP EXPERIENCE

Software Engineer Intern   *Boston, MA*
Northeastern University (NExT Consulting)   *Sept 2025 – Dec 2025*
- Delivered technical leadership to 6 student development teams, guiding architectural decisions and best practices
- Mentored 30+ undergraduate developers through complex software challenges and professional skills development
- Evaluated code quality, system design, and client communications to maintain high delivery standards for industry partners

Software Engineer Intern   *Boston, MA*
Fidelity Investments   *May 2025 – Aug 2025*
- Developed request money and spending insight features for Fidelity's Kotlin Android app, enabling parents to monitor and manage youth financial activity
- Streamlined teen user experience by implementing role-based feature flags to dynamically suppress or customize features
- Prototyped Kotlin Multiplatform migration for a critical internal CMS service to evaluate cross-platform development viability

Software Engineer Intern   *Boston, MA*
Northeastern University (NExT Consulting)   *Sept 2024 – Dec 2024*
- Developed GitMarks, an educational platform built with TypeScript, React, and Go that integrates GitHub workflows into classroom coding assignments
- Integrated with GitHub API to enable automatic student repository creation, assignment setup/distribution, submission deadlines, and grade-enabled pull requests with TA feedback

Software Engineer Intern   *Boston, MA*
State Street   *Jul 2024 – Sept 2024*
- Designed a scalable internal notification management system in Python, enhancing communication efficiency of 3000+ users
- Collaborated with cross-functional teams to gather requirements, ensuring alignment with diverse user needs and strict financial industry compliance standards

CAMPUS EXPERIENCE

Undergraduate Researcher   *Boston, MA*
Computational Modeling in Chemical Engineering at Northeastern University   *Feb 2024 – Jul 2024*
- Contributed to RMG-Py, a computational modeling software, by developing features and code optimizations in Python
- Led migration of output file format to YAML, improving cross-application interoperability and reducing execution time

Khoury Teaching Assistant   *Boston, MA*
Northeastern University   *Jan 2024 – May 2024*
- Mentored 250+ students in CS 3200 Database Design, delivering support through Piazza discussions and 1-on-1 office hours

FYELIC Teaching Assistant   *Boston, MA*
Northeastern University   *Sep 2022 – May 2023*
- Guided 200+ students in C++ programming and electrical prototyping with Arduino in the Cornerstone of Engineering course

PROJECTS

LifeLinked: A MTG Life Tracking App   ⨀ **Github**   ▶ **Google Play**   **App Store**
Kotlin, Compose/Kotlin Multiplatform, Gradle, Ktor, Koin, Android Studio, S3, Lambda
- Launched a cross-platform mobile app, attracting 8000+ installs and 5.0 star ratings across Google Play and App Store
- Achieved 95%+ code sharing between iOS and Android by leveraging Compose Multiplatform for unified UI and business logic
- Architected app using MVVM and clean architecture principles with Koin dependency injection for testable, maintainable code

TECHNICAL SKILLS

Languages:	Kotlin, Go, Python, JavaScript / TypeScript, Java, MySQL, PostgreSQL, SQLite
Tools/Frameworks:	Git, Github Actions, Docker, Android, Gradle, React, Node.js, MongoDB, REST APIs
Cloud Technologies:	AWS (RDS, DynamoDB, ECS, EC2, S3, Lambda, IAM, API Gateway), Terraform