

NICHOLAS TIETJE

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EDUCATION

Northeastern University

Master of Science in Computer Science, GPA 4.0/4.0

Bachelor of Science in Chemical Engineering and Computer Science, GPA 3.7/4.0

Boston, MA

Expected May 2026

Sept 2021 - May 2025

- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Scalable Distributed Systems, Software Engineering, Software Development, Mobile Application Development, Object Oriented Design, Algorithms & Data, Database Design

INTERNSHIP EXPERIENCE

Software Engineer Intern

Northeastern University (NEXt Consulting)

Boston, MA

Sept 2025 - Present

- Providing technical leadership and architectural guidance across 6 development teams
- Mentoring and advising 30+ undergraduate software engineer co-ops through complex software challenges
- Reviewing technical documentation, student-created code, and presentations/communications with industry stakeholders

Software Engineer Intern

Fidelity Investments

Boston, MA

May 2025 - Aug 2025

- Developed request money and spending insight features for Fidelity's Android app, enabling parents to monitor and manage youth financial activity
- Streamlined teen user experience by implemented role-based feature flags to dynamically suppress non-essential features
- Prototyped Kotlin Multiplatform migration for a critical internal CMS service to evaluate cross-platform development viability

Software Engineer Intern

Northeastern University (NEXt Consulting)

Boston, MA

Sept 2024 - Dec 2024

- Developed **GitMarks**, an educational platform that integrates GitHub workflows into classroom coding assignments
- Gathered requirements from professors and deployed a pilot program across several Northeastern University CS/DS courses
- 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

State Street

Boston, MA

Jul 2024 - Sept 2024

- Designed a scalable internal notification management system, 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

Computational Modeling in Chemical Engineering at Northeastern University

Boston, MA

Feb 2024 - Jul 2024

- Contributed to RMG-Py, an open-source computational modeling software, by developing features and code optimizations
- Led migration of output file format to YAML, improving cross-application interoperability and reducing execution time

Khoury Teaching Assistant

Northeastern University

Boston, MA

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

Northeastern University

Boston, MA

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 5000+ 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, Express, MongoDB, REST APIs

Cloud Technologies:

AWS (RDS, DynamoDB, ECS, EC2, S3, Lambda, IAM), Terraform