

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:** Foundations of Software Engineering, Software Development, Mobile Application Development, Object Oriented Design, Algorithms & Data, Database Design, Fundamentals of Computer Science I & II

INTERNSHIP EXPERIENCE

Software Engineer Intern

Fidelity Investments

Boston, MA

May 2025 - Present

- Developing the money request and spending insight features in the flagship Fidelity android app for teen/parent users
- Suppressing various features and entry points in the Fidelity app to streamline the experience for teen users and increase engagement and retention

Software Engineer Intern

Northeastern University

Boston, MA

Sept 2024 - Dec 2024

- Developed **GitMarks**, an industry-aligned educational platform that integrates standard GitHub workflows into classroom coding assignments, currently deployed in a pilot program across Northeastern University CS/DS courses
- Gathered requirements from professors, ensuring the product effectively met a robust set of academic needs & wants
- Enabled automatic student repository creation, assignment setup/distribution, submission deadlines, and grade-enabled pull requests with TA feedback through extensive integration with the GitHub API

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

Research and Development Intern

Nano-C

Boston, MA

Jul 2023 - Dec 2023

- Optimized techniques for surfactant-free Single Walled Carbon Nanotube inks, improving R/T performance by 11%
- Developed novel chemical separation and purification methods to drive product refinement

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 cohort of 250+ students in CS 3200 Database Design, providing technical support via Piazza and office hours
- Evaluated assignments, labs, and exams, offering constructive feedback to enhance student learning outcomes

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, API Gateway

- Engineered and launched a cross-platform mobile app, attracting over 3000 installs across Google Play and App Store
- Leveraged Compose Multiplatform to share both native UI and back-end logic between iOS and Android platforms
- Adhered to Android/iOS design and quality standards by performing beta testing and applying clean architecture techniques

TECHNICAL SKILLS

Programming Languages:

Kotlin, Java, Go, Python, JavaScript, MySQL, PostgreSQL, SQLite

Tools/Frameworks:

Git, Github Actions, Docker, Android, Express, MongoDB, React, Gradle, REST APIs

Cloud Technologies:

AWS (RDS, S3, DynamoDB, Lambda, IAM, Cognito, API Gateway), Terraform