

# 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