NICHOLAS TIETJE

 ntietje1   nicholas-tietje   nicktietje.com   tietje.n@northeastern.edu   (443) 204-0501

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:** 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 — *Boston, MA*
Fidelity Investments — *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 — *Boston, MA*
Northeastern University — *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 — *Boston, MA*
State Street — *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 — *Boston, MA*
Nano-C — *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 — *Boston, MA*
Computational Modeling in Chemical Engineering at Northeastern University — *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 — *Boston, MA*
Northeastern University — *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 — *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, 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