

Griffin Michalak

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Education

Northeastern University, Khoury College of Computer Sciences | GPA: 3.5/4.0 *August 2022 - May 2026*

B.S. Computer Science, Concentration in Artificial Intelligence

- Coursework: Algorithms & Data Structures, Object-Oriented Design, Database Design, Foundations of Cybersecurity, Linear Algebra, Music Theory I & II
- Honors: University Honors Program Scholar, PEAK Research Scholar
- Activities: HackBeanpot, Wind Ensemble, Saxophone Quartet, New England Conservatory Saxophone Ensemble

Massachusetts Academy of Math and Science at WPI | *With dual-enrollment at WPI* *August 2020 - May 2022*

- Coursework: Fundamentals of Computer Science I & II, Discrete Mathematics, Calculus I-IV, Advanced Mathematical Modeling, Advanced Physics, Technical Writing, Jazz Theory
- Honors: HiMCM Finalist, National Honors Society, First Chair Saxophone MMEA Symphonic Band, AP Scholar

Technical Skills

- **Languages:** Java, Swift, Kotlin, C++, JavaScript, Python, HTML/CSS, Pug, MaxMSP, LaTeX
- **Frameworks:** React.js, Node.js, Angular, Vue, Express, SQL, AWS, Jetpack Compose UI, CAD
- **Developer Tools:** Git, AWS, SDLC, Docker, Postman, MongoDB, Linux
- **Other:** MuseScore, Android Studio, Machine Learning, Software Testing, Debugging, MS & Google Suites

Experience

CAMD Music Technology at Northeastern | *Java, Kotlin, CMake, C++, Oboe Audio Library* *March 2023 - Present*
Software Engineer | Boston, MA

- Developing and collaborating on a C++ software environment on Android Studio, enabling users to program rooted Android phones as low-level embedded audio boards with real-time audio processing
- Repurposed 20+ aged Android phones to teach music tech fundamentals to students

Project 351 | *Teamwork, Community Service, Collaboration, Communication Skills* *January 2018 - June 2022*
Ambassador, Regional Leader | Boston, MA

- Led a team of 10-12 high schoolers overseeing service projects with local organizations, 2—3 drives yearly
- Collected yearly donations: 500 lbs. clothing and >\$2000 food items

Projects

Previewify | *JavaScript, Node.js, Express, Spotify Web API* *May 2023 - Present*

- Creating a web application using Node.js and Express allowing users to preview 100+ song recommendations from account playlists using TikTok-style discovery feed
- Retrieved data from Spotify API via HTTP requests to access user data via OAuth 2.0

FindDairyFree | *Swift, iOS API, MapKit Library* *March 2023 - Present*

- Built restaurant database application in iOS for users to search for 2000+ allergy-friendly restaurants based on various parameters including name, address, food/meal type, etc. through SwiftUI and MapKit libraries
- Scraped popular restaurant information from godairyfree.org to populate database and allowed users to execute parameterized searches in under 1 second