

# Joseph Siracusa

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## EDUCATION

<b>Northeastern University</b> <i>Bachelor of Science in Computer Science</i> <b>Coursework:</b> Algorithms & Data Structures, Computer Systems, Computer Architecture, Object Oriented Design, Foundations of Cybersecurity, Fundamentals of CS 1 & 2, Discrete Structures	Expected May 2027 Boston, MA
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## EXPERIENCE

<b>NExT Consulting</b> <i>Software Engineer Intern</i> <ul style="list-style-type: none"><li>Built 12 AI-native prototypes using multi-agent workflows and prompt engineering to guide Northeastern's AI strategy</li><li>Evaluated 50 developer tools such as Arize Phoenix, LangChain and CrewAI to find the best-fit solution for the university</li><li>Automated CI/CD with GitHub Actions, Docker and Render, eliminating integration bugs before production</li></ul>	Sep. 2025 – Dec. 2025 Boston, MA
<b>Wyzant</b> <i>Software Engineer Tutor</i> <ul style="list-style-type: none"><li>Delivered SWE tutoring to students from high school to graduate level, tailoring sessions to academic and career goals</li><li>Tutored 40+ students in DSA, test-driven development and DB design achieving 100% satisfaction over 300+ hours</li><li>Designed interactive exercises using Replit &amp; GitHub for students to apply programming concepts with hands-on practice</li></ul>	Jun. 2023 – Sep. 2025 Remote
<b>Northeastern University</b> <i>Computer Science Teaching Assistant</i> <ul style="list-style-type: none"><li>Provided instruction to 170+ students on data structures, algorithms, and object-oriented programming in Java</li><li>Mentored students on data structure selection and redundant computation over 10+ assignments to optimize time/space</li><li>Reinforced inheritance, polymorphism and encapsulation with 15+ code reviews, improving student code structure</li></ul>	Jan. 2025 – Apr. 2025 Boston, MA

## PROJECTS

<b>Breathe Easy</b>   Dart, Flutter, Google Map & Air Quality APIs, Docker, Git	1st Overall – CS Base Climate Hack <ul style="list-style-type: none"><li>Built a mobile app to compute optimal travel routes from real-time air quality data to help users avoid pollution hotspots</li><li>Developed reactive Flutter/Dart UI for intuitive route visualization, helping users better prioritize their respiratory health</li><li>Integrated Google Maps &amp; Air Quality APIs, mapping route segments using the UAQI to compare exposure between routes</li></ul>
<b>Portal Card</b>   Dart, Flutter, Google Wallet API, Git	3rd Overall - FinHacks 2025 <ul style="list-style-type: none"><li>Created a demo mobile app for a hybrid credit-transit card concept to promote public transit adoption and sustainability</li><li>Implemented the app in Flutter and Dart, managing state, UI and business logic to deliver a functional end-to-end demo</li><li>Leveraged digital wallet integration via the Google Wallet API, enabling users to add Portal Cards to their wallets</li></ul>
<b>Math Monsters</b>   HTML/CSS, JavaScript, Git	1st in Track - PawHacks 2024 <ul style="list-style-type: none"><li>Constructed an interactive educational game to teach children foundational mathematics through customizable gameplay</li><li>Utilized HTML, CSS, and JavaScript to implement game mechanics and provide an inviting UI for children</li></ul>
<b>City Story</b>   JavaScript, React, Google Maps API, Java, Spring, Git	<ul style="list-style-type: none"><li>Produced a web app for tourists to discover, rate and travel to 30+ landmarks with crowd-sourced recommendations</li><li>Embedded Google Maps API with React to compute optimal multi-stop routes, streamlining trip planning for tourists</li><li>Engineered a RESTful rating system with Spring Java &amp; MySQL, allowing users to rate landmarks and guide future visitors</li></ul>
<b>Tutor Me</b>   JavaScript, React, WebRTC, Go, Git	Work in Progress <ul style="list-style-type: none"><li>Developing a real-time tutoring platform enabling tutors &amp; students to video call, screen share and send messages</li><li>Implemented WebRTC video calling and screen sharing with a Go signaling server, enabling low-latency P2P sessions</li><li>Deployed TURN/STUN server for NAT traversal, ensuring reliable P2P connections over restrictive network environments</li></ul>

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, Dart, Python, C#, HTML, CSS, JavaScript, Typescript, Go, SQL, R

**Frameworks:** React, Node.js, JUnit, Spring, Ktor, Flask, FastAPI, LangChain, Flutter, .NET

**Developer Tools:** Git, GitHub Actions, Docker, AWS, Linux

**Concepts:** Data Engineering, System Design, Cloud Computing, Data Structures, Algorithms, OOP, SOLID principles, Unit Testing