

# Benjamin E. Jordan

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[Portfolio Website](#)

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<b>Education</b>	Rochester Institute of Technology B.S. in Computer Science, 3.6 GPA	[Expected Dec 2022]
<b>Skills</b>	<b>Programming:</b> C#, Java, Javascript, C/C++, Python, SQL, ASP.NET, Angular, React <b>Other Relevant Skills:</b> Git, JetBrains, Visual Studio, Linux, Windows, Unit Testing, Agile	
<b>Experience</b>	<b>Research Software Developer</b> [Rochester NY, August 2022 - Present] <ul style="list-style-type: none"><li>Hired by RIT faculty to develop an interactive listening test to collect data on how participants interpret audio</li><li>Technologies used include Angular, Typescript, and WebGL/Three.js</li></ul> <b>SWE Internship at Carestream</b> [Rochester NY, May 2022 - August 2022] <ul style="list-style-type: none"><li>Developed and maintained Carestream's ImageView x-ray imaging software</li><li>Worked on 1 of 5 agile development teams</li><li>Technologies used during this experience include C#, ASP.NET, and AngularJS</li></ul> <b>Research and Software Development Intern</b> [Rochester NY, June 2020 - Dec 2021] <ul style="list-style-type: none"><li>Independently implemented software for a research project with Dr. Sungyoung Kim to test the effectiveness of hybrid cochlear implants</li><li>Designed software architecture and the implemented the 8 training test algorithms found in the program</li><li>Participated in weekly standup meetings where software progress was demoed</li><li>Technologies used include Javascript, PHP, SQL, HTML, and CSS</li></ul> <b>Instructor at UCode Ithaca</b> [Ithaca NY, June 2019 - August 2019] <ul style="list-style-type: none"><li>Taught Python and programming skills to children ages 6-13 in a group setting</li></ul>	
<b>Coursework</b>	Computer Systems, Algorithms, Programming Language Concepts, Operating Systems, Artificial Intelligence, Machine Learning, Databases, Graph Theory, Cryptography, Parallel & Distributed Systems, Professional Communications	
<b>Activities</b>	RIT Varsity Track and Field RIT EDM Club Founder & Officer RIT AI Club Member	[March 2019 - Present] [May 2020 - Present] [September 2022 - Present]
<b>Projects</b>	<b>Cochlear Implant Testing Software (Professional)</b> <ul style="list-style-type: none"><li>Independently developed software used to test the effectiveness of hybrid cochlear implants</li><li>Implemented 8 round based listening test algorithms in javascript</li><li>Used the Web Audio API extensively to generate and process audio for each test</li><li>Stored test data for each user in a MySQL database</li><li>Used to collect data for academic research (As seen <a href="#">here</a> and <a href="#">here</a>)</li></ul>	

## **Projects Cont.**

### **EQ Audio Effect (Personal)**

- Wrote a four filter parametric equalizer plugin for audio processing
- Successfully used the EQ inside personal music making software
- Written using the JUCE C++ framework

### **Compiler/Translator (Academic)**

- Final project for Programming Language Concepts written in Java
- Group of 4 created compiler that takes a made-up programming language as input, analyzes it, and translates it into C, Python, or Java
- Individual responsibilities included creating the semantic analyser
- Analyser operates by creating a lookup table to store variables and user functions found in the parse tree
- It then searches the parse tree for patterns (ex. return statements, func calls) and reports detailed error messages if patterns are not valid

### **Encrypted Messenger (Academic)**

- Independently created an RSA messenger for Concepts of Parallel and Distributed Systems final project
- Program sends and retrieves Base64 encoded public keys to and from a classwide server
- Uses a parallelized prime number generator to generate large RSA parameters quickly (ex. 1024 or more bits) and tests them for primality with the Miller-Rabin algorithm
- Written using C#

## **Awards**

Liberty League All-Academic Team  
RIT Presidential Merit Scholarship  
Dean's List