

# Joshua Pirog

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joshpirog.com | github.com/joshpirog

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- Profile:** Focused, energetic, problem solver whose knowledge of technology and personable attitude can add value to modern organizations
- Education:** **Stevens Institute of Technology**, Hoboken, NJ  
**Master of Science in Software Engineering | Grad Cert. in Software Design and Development** - May 2020  
Bachelor of Arts in Music and Technology (Honors) | Minor in Computer Science - May 2019  
**Graduate GPA:** 3.63  
**Academic Coursework:** Engineering Enterprise Software Systems, Agile Methods for Software Development, Software Architecture & Component Based Design, Object-Oriented Analysis & Design, Cost Estimation & Metrics
- Skills:** **Languages:** Java, Python, C++, JavaScript, Bash, SQL  
**Web & Cloud:** HTML5, CSS, React, Git, AWS, Azure
- Experience:** **Microsoft (formerly Nuance)**, New York, NY/Remote  
**Software Engineer** September 2019 - Present
- Utilizes Java, XML, and JavaScript to develop IVR applications (Voicebots) for enterprise customers
  - Serves as Technical Lead on multiple projects, organizing development tasks and leading production deployments
  - Trains junior developers in coding, deployment, and architecture skillsets to foster their independence
  - Communicates with teammates and customers from multiple disciplines to meet project goals
  - Works with application and web servers using HTTP protocol, REST and SOAP API
  - Creates unit testing suites and performs manual tests to ensure software quality
  - Manages source code branches for projects with parallel release cycles
  - Maintains technical documentation for system architecture of IVR, and voice biometric applications
  - Contributes to front-end voice user interface design to achieve customers' KPI
  - Troubleshoots critical application issues, parsing server and network logs
  - Implements Natural Language Understanding (NLU) for accurate user intent capture
- Projects:** **E-Commerce Web Application**  
**Full-Stack Developer** October 2024 - November 2024
- Implemented front-end web application using React framework components for the User Interface, with React Router to navigate to different pages (replicating an Amazon.com -type website)
  - Used Passport.js library to securely authenticate and authorize users through login and cookies to maintain session information
  - Built a CRUD API with Node Express framework that serves the front-end with core REST endpoints that read and write info for users, products, and orders
  - Connected a PostgreSQL database to the back-end server to allow storage and retrieval of persistent data
  - Documented the API with Swagger to visualize the paths, operations, and example requests and responses
- Reddit Application**  
**Front-End Web Developer** July 2024 - August 2024
- Utilized the Reddit API to fetch real Reddit posts, subreddits, and comments based on user search parameters
  - Displayed UI with React framework components, HTML and CSS for both desktop and mobile screen sizes
- Music Playlist Application** | onBeat.surge.sh  
**Front-End Web Developer** June 2019 - August 2019
- Designed a web application using React framework that adds songs to a new playlist on a user's Spotify account
  - Used the Spotify API and developer resources to retrieve search results and authorize user account information
- Currency Application**  
**Mobile Developer** Spring Semester 2018
- Implemented Block Chain for "Duck Coin" currency trader in mobile application with a team of 10 classmates
  - Worked collaboratively on the User Interface and programmed the entire application in Java for Android devices
- Interests:** Audio technology, coding, writing, graphic design, photography, video production, tennis, nutrition, fitness