

# Amogh Jambekar

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## EDUCATION

### NORTHEASTERN UNIVERSITY

*Bachelor of Science in Computer Engineering*

- Incoming Fall 2025

Expected May 2029

*Boston, MA*

### BRIDGEWATER-RARITAN HIGH SCHOOL

*High School Diploma (4.35/4.0 GPA)*

- SAT: 1510/1600
- Relevant Coursework: Data Structures and Algorithms (CS112), AP CSP/CSA, AP Physics 1, AP Physics C (E&M + Mech.)
- Notable Activities: Quantum Computing Club (President, Founder), FRC Team 303 (Captain), BREngineering (President)

June 2025

*Bridgewater, NJ*

## SKILLS

**Languages:** Python, Java, C++, HTML/CSS, JavaScript, TypeScript, Qiskit, Q#, Cirq

**Frameworks:** Astro, TailwindCSS, Tkinter, PyTorch, MDX

**Developer Tools:** Jupyter Notebooks, Numpy, Pandas, Matplotlib, PostCSS, Autoprefixer, Zod

## EXPERIENCE

### HOLONYM FOUNDATION

*Mobile App Development Intern*

Summer 2024

*Washington, D.C.*

- Engineered a Swift-based iOS app using local passport scanning and parsing to enable users to generate zero-knowledge proofs (ZKPs) for private identity verification;
- Developed 15+ unit and integration tests using XCTest and conducted security audits to ensure cryptographic integrity and compliance with App Store guidelines;
- Contributed to deployment automation using CI/CD tools, facilitating a smooth App Store launch and achieving 3,000+ secure downloads.

### ICODE BRIDGEWATER

*Instructor*

October 2023–

*Bridgewater, NJ*

- Taught 250+ students over two years in year-long classes and summer camps, covering Python, C++, Java, Scratch, Web Dev, Roblox Studio, Minecraft Education, and VEX IQ Robotics;
- Delivered 600+ hours of instruction tailored to age and skill level, fostering engagement in coding, game design, and robotics.

### FRC TEAM 303

*Captain*

December 2021–

*New Jersey, USA*

- Led 300+ students through robot design, fabrication, and programming across 4 seasons, engineering 4 competitive robots and mentoring subteams in CAD, control systems, and strategic game analysis;
- Rebuilt team operations and morale post-Hurricane Ida after \$1M in facility losses, securing \$250K in new sponsors, reallocating resources, and guiding the team to the FMA District Championships 3 times;
- Achieved a cumulative 56–32 match record and earned 12 awards with 3 event wins, including Quality and Engineering Inspiration Award, through data-driven scouting, iterative prototyping, and alliance strategy leadership.

## PROJECTS

### PERSONAL WEBSITE | *Astro, TailwindCSS, TypeScript, MDX*

May 2025

- Developed a full-stack portfolio website with a dynamic main page featuring experience, projects and education, validated blog with tag filtering, and a password-protected photos section unified by an intuitive navbar;
- Implemented content validation handling 10+ blog posts, tag-based filtering reducing search time by 40% and storing 80+ photos.

### QUICK | *Swift*

April 2025

- Built a lightweight post-it note app with an editable floating timer, used by 200+ testers and optimized for minimal resource use ahead of App Store launch.