

# Jacob Langlois

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## EDUCATION

### Northeastern University Houry College of Computer Science

Boston, MA

Candidate for Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.90/4.00

Scholarships & Awards: Northeastern University Honors Program

Sep 2023 - May 2027

Relevant Coursework: Fundamentals of Computer Science (I & II), Discrete Structures, Calculus 3 (Honors),

Mathematics of Data Models, Differential Equations and Linear Algebra (Honors), Intro to Mathematical Reasoning

Clubs: Alpha Kappa Psi, Oasis, NEU Rock Climbing

## PROFESSIONAL EXPERIENCE

### Oasis at Northeastern

Boston, MA

Software Engineer

Sep 2023 – Present

- Designed and developed a semester-long full stack project in a small group of four Northeastern students
- Attended weekly hack sessions to develop new programming skills and information regarding the SWE industry
- Collaborated with team members to implement agile development methodologies, ensuring timely project milestones

### American Pool Association

McMurray, PA

Head Guard & Swim Coach

May 2020 – Aug 2023

- Maintained a safe aquatic environment by enforcing all pool rules and constantly surveying the premise
- Ensured proper pool chemical levels and overall safety while providing customer service to patrons in need
- Created swim workouts and meet lineups for kids (13+) to ensure improved swimming abilities

### Oak Ridge National Laboratory

Oak Ridge, TN

Intern

Jul 2022 – Aug 2022

- Coordinated a group robotics research project alongside expert researchers at Oak Ridge National Laboratory (ORNL)
- Programmed using BASIC and Arduino to optimize the path-finding capabilities of previously constructed robots
- Designed and presented a visually compelling and informative poster of findings to a distinguished panel of Appalachian region state representatives showing the benefits of our autonomous robot navigation

## LEADERSHIP EXPERIENCE

### Jamaican Advantage thru Sports for Youth (JASY)

Kingston, Jamaica

Pool Activities Leader

Jul 2023 – Aug 2023

- Instructed and supervised 50+ children, ages 5 to 15, in essential water safety practices and comprehensive swimming techniques through personalized one-on-one sessions, group activities, and engaging dryland exercises
- Cultivated meaningful connections with local youth while fostering values of teamwork, compassion, and unity
- Oversaw impactful initiatives including team-building workshops, community service projects, and open dialogues

### CGI

Pittsburgh, PA

Student Researcher

Jan 2022 – Mar 2023

- Selected as one of 25 students in Washington county for Pittsburgh Penguins Tech Academy
- Developed an in-game feature using LIDAR technology to measure the force of hockey checks and devised possible implementations of this information to improve viewer attention and involvement during Penguin games
- Pitched idea to CGI staff and won 1st place in the program, achieving recognition for impressive ideas and integration

## PROJECTS

### Peace of Mind | Technologies: React.js, Next.js, Typescript, Python, Flask, Firebase, Tailwind CSS

- Developed a mental health AI chatbot tailored to college students in a group of four using OpenAI's public API
- Implemented server-side functionalities in backend using Python and Flask, enhancing the chatbot's capabilities
- Utilized Firebase to facilitate communication between the applications backend and React.js frontend

### jakelanglois.com | Technologies: React.js, Vite, JavaScript, Tailwind CSS, HTML

- Deployed and maintained a personal website using Vite, a build tool that seamlessly blends React.js, JavaScript, Tailwind CSS, and HTML to create an engaging and polished platform that showcases my portfolio and interests
- Innovatively incorporated interactive elements, delivering a visually compelling experience that captivates visitors

## TECHNICAL SKILLS AND INTERESTS

**Programming Languages:** Java, Python, TypeScript, HTML5, CSS, JavaScript, BASIC

**Developer Tools:** React.js, Next.js, Node.js, Tailwind, Git/Github, VSCode, Figma, Firebase

**Interests:** Bouldering, Ping Pong, Music, Chess, Mathematics, Philosophy, Hiking, National Parks, Camping, Swimming