

Jacob Langlois

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EDUCATION

Northeastern University Khoury College of Computer Science

Boston, MA

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

Sep 2023 - May 2027

Scholarships & Awards: Northeastern University Honors Program

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

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, Typescript, Python, Flask, Firebase, Tailwind

- Developed a mental health AI chatbot tailored to college students in a group of four using OpenAI's public API
- Utilized Firebase to facilitate communication between the applications backend and React.js frontend

Pipe Fantasy

- Independently designed the game Pipe Dream by implementing appropriate game logic and UI/UX displays

SKILLS, & INTERESTS

Skills: Java, HTML, CSS, JavaScript, BASIC, Arduino, Visual Studios, Google Suites, Microsoft (PowerPoint & Excel)

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