Jacob Langlois

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EDUCATION

Northeastern University Khoury College of Computer Science   **Boston, MA**
Candidate for Bachelor of Science in Computer Science and Mathematics   GPA: 3.95/4.00
Scholarships & Awards: Northeastern University Honors Program   *May 2026*
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

Work EXPERIENCE

Software Engineering Institute | Carnegie Mellon University   **Pittsburgh, PA**
Software Developer Intern   *May 2024 – Aug 2024*
- CERT Cyber Mission Readiness Team

Alpha Kappa Psi Professional Business Fraternity   **Boston, MA**
Service Chair   *Dec 2023 – Apr 2023*
- Spearheaded major service events, coordinating logistics and volunteers to successfully engage over 150 participants leaving not only a significant contribution to the community but also enhanced the fraternity's recruitment efforts
- Collaborated with other fraternity officers to integrate service initiatives into the chapters overall goals and objectives
- Fostered a culture of philanthropy and social responsibility in the chapter, contributing to strong community presence

AfterFlea OS Conversational AI   **Boston, MA (Remote)**
Software Engineer Intern Jan   *2024 – Mar 2024*
- Engineered the Convo Generator, a device built with Python, Node.js, and the OpenAI API that creates human-like conversation, fostering a distinct and inviting atmosphere while actively engaging users throughout their experience
- Led project involving prompt engineering and the creation of 100+ page stories spanning unique genres and topics

Oasis at Northeastern   **Boston, MA**
Software Engineer   *Sep 2023 – Dec 2024*
- 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

Oak Ridge National Laboratory   **Oak Ridge, TN**
Robotics 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

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

NeuroJump | *Technologies: Python, Pygame, NEAT-Python*
- Created an endless runner game with core mechanics such as collision detection, obstacle generation, and movement
- Integrated the NeuroEvolution of Augmenting Topologies (NEAT) algorithm to empower the game with machine learning capabilities, enabling the system to autonomously learn and adapt to the gameplay until the game was played perfectly

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Java, C#, Python, TypeScript, HTML5, CSS, JavaScript, BASIC
Developer Tools: React.js, Next.js, Node.js, Tailwind, Pygame, Git/Github, VSCode, Figma, Firebase
Interests: Bouldering, Ping Pong, Music, Chess, Mathematics, Philosophy, Hiking, National Parks, Camping, Swimming