

Luis "Louie" Maas
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Availability: April 2025

EDUCATION

Northeastern University, Boston, MA

Khoury College of Computer Sciences, College of Social Sciences and Humanities

2021 – Present

Expected April 2025

**Candidate for Bachelor of Science in Computer Science and Cognitive Psychology
and Bachelor of Science in Philosophy, 3.63/4.0 GPA**

Related Coursework: Algorithms and Data (Master's Level) | Object-Oriented Design | Logic and Computation
Fundamentals of Computer Science I and II | Artificial Intelligence | Discrete Structures
Networks and Distributed Systems | Fundamentals of Software Engineering

COMPUTER KNOWLEDGE

Languages: *Java, JavaScript, HTML, CSS, LISP, Python, SQL, PHP, Liquid, Yang, Groovy, XML, Bash, Shell*

IDEs: *Visual Studio Code, IntelliJ IDEA, Jupyter Notebook, Spyder, Eclipse, Notepad++*

Software: *Microsoft Office Suite, WordPress, GitHub*

RELEVANT EXPERIENCE

Software Developer Intern, Lumen Technologies

May 2024 – August 2024

- Collaborated in an Agile framework, participating in daily stand-ups to share work and resolve blockers.
- Analyzed and resolved issues in JSON schema validation packages, ensuring accurate processing of customer network service requests and improving system reliability.
- Migrated nightly Yang/XML FitNesse tests to new lab devices, ensuring code correctness and efficiency.
- Leveraged my strong background in algorithms and data structures to optimize memory usage and runtime of Groovy scripts, enhancing the performance of parsing service requests from network customers.

AI Software Development/Research Co-op, University of Perugia (Italy)

September 2023 – December 2023

- Developed an R package for computing metrics of Distinctiveness Centrality, a metric to interpret graphical data, used in the Semantic Brand Score (SBS) Business Intelligence App.
- Published the package to CRAN, distributing the package to users in many R development environments.
- Optimized the performance of the SBS App by implementing parallel processing strategies.

Lead Web Developer, Envision Exotics

March 2023 – September 2023

- Created an online shop for exotic car rentals in Miami, FL that is still in use today.
- Developed functionality for customers to reserve times and dates for specific cars in inventory.
- Designed infrastructure to handle payments, security deposits, e-signing of rental agreements, and intake/verification of driver's licenses and insurance information.

Software Engineering Intern, EMR Direct

June 2020 - September 2020

- Developed software to ensure product compliance with HL7 FHIR industry standards in Java.
 - Created web pages for customers to engage with our products in HTML/CSS/PHP.
 - Maintained an end-to-end encrypted messaging system between healthcare providers and patients.
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PROJECTS

Photo Editing Software: Standalone Java program

May 2022 - June 2022

- Enabled users to perform many image manipulations, including resizing, applying filters (sepia, greyscale, blur, horizontal/vertical flips, etc.), and to save/load photos to/from the user's computer.

Connect Four AI: Python Connect Four AI player

February 2022 – March 2022

- Engineered a heuristic to determine the quality of a Connect Four game state for either player.
- Employed this heuristic in an A* depth-first search to compute the best possible move for the AI player, considering its opponent's best possible moves, to a specified depth of future turns.

BGP Router: Python code that simulates behavior of a BGP router inside a closed simulation

February 2024

- Leveraged API functions such as `select()` and `poll()` to manage multiple sockets within my program.
 - Built/managed forwarding tables, aggregated entries, manipulated IP addresses, deciphered subnet masks, and handled different types of messages to best direct network traffic between nodes.
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INTERESTS

- Soccer, Music, Philosophy, Languages