

JACOB SAYATOVIC

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EDUCATION

University of Cincinnati

Bachelor of Science, Computer Science

Graduating: May 2025

GPA: 3.42/4.00

SKILLS

Programming:

C++, Python, JavaScript, Java, CSS, TCL, HTML, MATLAB, VBA

Software: Visual Studio, JetBrains, PyCharm, IntelliJ, Visual Studio Code + AI Extensions (CoPilot etc.), Eclipse

Operating Systems: Microsoft Windows 10+, Linux

General: Microsoft Office, G-Suite, Workspace, Slack, Autodidacticism, Problem Solving Skills, Project Management

EXPERIENCES

Siemens Digital Industries Software | Software Developer Intern

May–August 2023 & January–August 2024

- Spearheaded the conversion of an extensive legacy TCL code base to C++, enhancing system efficiency and streamlining over 100 unique file format conversions along with hundreds of distinct modification commands
- Designed an advanced sorting algorithm to determine the most efficient file conversion path, factoring in native file formats and raster/vector distinctions
- Collaborated on integration with larger software components, ensuring seamless functionality with significant code segments and graphics engines all through the use of GitLab
- Mentored an intern who joined the project, introducing them to the codebase, tools, and workflows; received commendation from my manager for exceptional leadership and guidance

T-Mobile | Retail Sales Associate

Sep 2022 – Current

- Communicate internet connection choices to customers to ensure informed customer decisions
- Adapt quickly to the environment and placed top 10 in the district in sales within the first month on the job

PROJECTS

QuickShift | CS Senior Design

August 2024 - Current

- Leading a team in producing an innovative job posting product called QuickShift
- Lead developer in creating back-end structure to hold hundreds of job postings and thousands of candidates simultaneously
- Utilizing AI to match job openings with well-fitted candidates

UC Innovation Challenge | CEAS Self-Paced Entrepreneurship

June–August 2024

- Determined the files compression format and wrote the decompressed text to another text file
- Reversible format allowed an uncompressed file to be compressed using run-length compression

Bulletin Board System | Computer Networks

October 2023

- Led a team to develop a client-server bulletin board using socket programming, ensuring alignment and execution
- Engineered a cross-language communication protocol in Java and Python, enhancing system interoperability
- Implemented multi-threaded server handling and a dynamic user interface, boosting usability and engagement

AI Logic Solver | Artificial Intelligence

November 2023

- Project leader in engineering an AI-based solver to automate structured puzzle-solving
- Crafted sophisticated algorithms for the dynamic management of puzzle states and transitions, utilizing Prolog to exploit its strengths in logic-based challenges
- Partnered in the design of user-centric interfaces for seamless puzzle input and solution visualization, significantly boosting usability and user comprehension

Lego Mindstorm Robot | Intro to Engineering II

March 2022

- Team leader for the project, reviewed and analyzed all data and content to ensure sufficient work
- Spearheaded the programming development of the robot, and created a failsafe in case all went wrong

ACTIVITIES

Pi Kappa Alpha – Member

Oct 2022 - Present

- Reinforced team-building skills and leadership throughout different philanthropic events

Powerlifting Club – Member

Aug 2021 – Present

AWARDS & HONORS

Cincinnatus Scholarship

Aug 2020 – Present

Top 10 Academic Students

May 2021

AVAILABLE FOR FULL TIME JUNE 2025