

Jack Yerkes

734-585-4068 | jyerkes@umich.edu | linkedin.com/in/jackyerkes | jyerkes.com

EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Ann Arbor, MI

Aug. 2021 – May 2025

- **Relevant Coursework:** Data Structures and Algorithms, Web Systems, Software Engineering, Conversational AI, Computer Organization, Intro to Computer Security, Database Management Systems

TECHNICAL SKILLS

Languages: C++, C, Python, SQL, R, JavaScript, HTML/CSS

Frameworks/Libraries: Flask, React

Developer Tools: VS Code, Xcode, Git, RStudio, Docker, AWS, Wireshark

Testing & Analysis: gcov, Cobertura, EvoSuite, CodeSonar, Infer

PROJECTS

AI Powered Cooking Assistant

- Built an open-source AI-driven recipe assistant using OpenAI API, Flask, and SQLite, allowing users to get meal suggestions based on available ingredients
- Integrated DALL-E 3 to generate realistic dish images and enabled account-based recipe saving
- Designed an intuitive chatbot-style interface with HTML, JavaScript, and RESTful APIs for seamless user interaction

Social Media Platform

- Developed a Flask-based Instagram clone with server-side rendering, CRUD operations, session-based authentication, and SQL-based data management
- Built a React frontend leveraging AJAX and REST APIs for infinite scroll, real-time likes, comments, and dynamic UI updates
- Deployed on AWS EC2 with Gunicorn and Nginx, ensuring scalability, secure data storage, and optimized request handling

Gro-share-ies (Co-founder)

- Co-founded and launched a mock startup offering rideshare services to grocery stores
- Pitched to J12 Ventures seeking to secure initial funding of \$80,000
- Developed a landing page to validate market interest and test user demand

Node Mapping

- Implemented a Minimum Spanning Tree (MST) using Prim's algorithm to connect nodes efficiently
- Developed an optimized solution to the Traveling Salesman Problem (TSP) by employing an arbitrary insertion heuristic, enabling rapid mapping of the optimal cycle to capture every node and return to the starting point

EXPERIENCE

Marketing and Strategy Intern

May 2023 – Jul. 2023

Eindom

Copenhagen, DK

- Led a guerrilla marketing campaign to enhance brand awareness and promote the company effectively
- Designed and executed a targeted outreach initiative, collaborating with over 200 Danish realtors to establish mutually beneficial referral relationships
- Generated financial projections for Monthly Recurring Revenue (MRR), which the company incorporated into their pitch deck for the subsequent investment round

Junior Investment Analyst

Jun. 2022 – Aug. 2022

ID Fund

Boca Raton, FL

- Produced comprehensive investment update reports to apprise clients of the fund's \$150+ million portfolio status and highlight recent developments
- Spearheaded the centralization of client data across multiple platforms, enhancing data accessibility and streamlining operations
- Conducted in-depth research on potential investment opportunities, evaluating market share, key personnel, industry dynamics, growth prospects, and risk factors
- Developed a proprietary investment scorecard, streamlining evaluation of potential investments