Jack Yerkes

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EDUCATION

University of Michigan <div align="right">Ann Arbor, MI</div>
Bachelor of Science in Computer Science <div align="right">*Aug. 2021 – May 2025*</div>

- **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

Strategy & Finance Intern <div align="right">May 2023 – Jul. 2023</div>
Eindom <div align="right">*Copenhagen, DK*</div>

- Generated financial projections for Monthly Recurring Revenue (MRR), which the company incorporated into their pitch deck for the subsequent investment round
- 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

Junior Investment Analyst <div align="right">Jun. 2022 – Aug. 2022</div>
ID Fund <div align="right">*Boca Raton, Fl*</div>

- 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