

Jonathan Mimnaugh

mimnaughjonathan@gmail.com | linkedin.com/in/jonathan-mimnaugh | github.com/iamjdm

PROFESSIONAL SUMMARY

Full-stack software engineer and Computer Science graduate from Governors State University with production experience building responsive web platforms, RESTful APIs, and AI-integrated applications. Skilled in JavaScript, Python, and Flask with a strong foundation in relational database design, async frontend development, and end-to-end debugging. Recognized contributor to NASA-funded drone safety research with a forthcoming IEEE publication.

EDUCATION

Governors State University

Bachelor of Science in Computer Science. GPA: 3.9.

University Park, IL

May 2026

Relevant Coursework: Discrete Structures, Intro to UNIX Systems, Web Applications, Mobile App Development, Data Structures & Algorithms, Intro to Databases, Database Design & Admin SQL, Software Engineering

St. Petersburg College

Associate in Arts.

Tarpon Springs, FL

May 2021

EXPERIENCE

Research Intern

May 2024 – Aug. 2024

Notre Dame University

Notre Dame, IN

- Contributed to a clustering algorithm to model drone interaction failure types for geofencing analysis, with 2D and 3D visualization output, as part of NASA-funded autonomous drone safety research; contributions are included in a forthcoming IEEE Transactions on Software Engineering publication.
- Designed and deployed an interactive browser-based diagram editor for NASA drone safety research at Notre Dame, publicly accessible via GitHub Pages, supporting GSN, ERD, and flowchart modes with 6 typed node classifications and formal safety argument rendering.

PROJECTS

TeaZen Boba Bar

Jan. 2026 – May 2026

Python, Flask, PostgreSQL, SQLAlchemy, JavaScript, Groq API

- Built and deployed a full-stack web platform on Render with a Python Flask REST API (10+ endpoints) handling live menu management, orders, events, and job applications.
- Implemented a responsive vanilla JavaScript frontend with the Fetch API for async communication, including a shopping cart with checkout, event calendar with RSVP, and job portal.
- Designed a relational PostgreSQL database with 7 tables using SQLAlchemy ORM, enforcing referential integrity across menu, order, and event data.
- Integrated a Groq-powered AI chatbot grounded on a custom knowledge base to answer menu, allergen, and event questions in real time.

NASA Drone Safety Flowchart System github.com/iamjdm/ND-drone-flowchart

May 2024 – Aug. 2024

JavaScript, HTML/CSS, Cytoscape.js, Canvas API

- Developed a browser-based interactive data visualization and diagram editor supporting Goal Structuring Notation (GSN), ERD, and flowchart modes for NASA-funded drone safety research at Notre Dame, with 6 typed GSN node classifications, auto-numbering, and formal safety argument rendering.
- Built a full-featured graph editing UI with 50-step undo/redo, real-time inspector panel, snap-to-grid, multiselect, PNG/SVG/JSON export, shareable URL state sharing, auto-save, and a custom Canvas API minimap with live viewport tracking and click-to-navigate.

SKILLS

Languages: JavaScript, Python, Java, HTML, CSS, SQL

Frameworks & Libraries: Flask, SQLAlchemy, Cytoscape.js, Groq API

Databases: PostgreSQL, MySQL

Developer Tools: Git, GitHub, VS Code, Render

Concepts: Full-Stack Development, RESTful API Design, Responsive UI/UX, AI/LLM Integration, Database Design, Cloud Deployment, CORS, Database Migration