

# Jonathan Levy

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## EDUCATION

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### University of Florida

*Bachelor of Science in Computer Science Engineering, Minor in Mathematics*

*GPA: 3.9 / 4.0*

Gainesville, FL

*May 2024*

## EXPERIENCE

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### BNY Pershing

*Fullstack Developer*

August 2024 – Current

*Lake Mary, Florida*

- Built a replacement screen for the LoanAdvance service using Angular and a modern design system, integrating additional interest rate data to better inform client decisions
- Developed a containerized frontend system within a Micro Frontend (MFE) architecture using Tomcat and Spring, enabling dynamic loading of 6 different Angular Elements applications of through a CDN
- Built a new Opportunity View screen using Angular, increasing visibility of income-generating opportunities via the Fully Paid Lending program
- Created an optimized SQL query to perform a global search on a hierarchical table, reducing the query time from 1.2 seconds to 200 milliseconds

### Electric Company Practicum Project

*Data Scientist*

December 2023 – April 2024

*Gainesville, Florida*

- Collaborated with 5 undergraduates to build a machine learning algorithm in Python for Tampa Electric to detect anomalies in the electric grid using voltage data from IoT Smart Meters
- Used the machine learning algorithm Isolation Forest to detect anomalies in the voltage data
- Analyzed the provided datasets using Pandas via the UF HiPerGator to determine the best features to use for the model
- Presented project findings, model performance metrics, and key insights to stakeholders at Tampa Electric, demonstrating the model's potential for real-world anomaly detection in smart grid systems

### Reactonaut

*Fullstack Developer Intern*

July 2023 – August 2023

*Remote*

- Helped develop early stage startup that aimed to help people learn React through AI assistance
- Implemented NextAuth for user authentication and MongoDB to store user data
- Engineered prompts and minimized required input tokens to ChatGPT API to improve response time by 50%

## PROJECTS

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### DynaCV | *Vite, React, Flask, AWS RDS, Google OAuth, MySQL, TypeScript*

- Brainstormed the creation of an efficient schema for the database to store user data and resume entries
- Configured a MySQL database via AWS RDS to store user resume entries and user data
- Developed a REST API with Flask to handle CRUD operations on user data
- Integrated Google user authentication for user sign-in and sign-up
- Used the React Context API to manage user authentication and user data across the application

### Focus Fracture | *React, AWS, MongoDB*

- Set up a MERN stack on an AWS Lightsail Ubuntu instance to host the application using the Next.js React framework
- Implemented a REST API with Node.js and Express to handle CRUD operations on tasks
- Created a MongoDB database to store user and task data

### Personal Website [www.jonathanlevy.vercel.app](https://www.jonathanlevy.vercel.app) | *React, TailwindCSS, DaisyUI, Vercel*

- Designed an improved personal website using React to showcase past and current projects
- Utilized TailwindCSS for styling and responsive page behavior and DaisyUI to create a clean and modern design
- Created flexible components to display project information and links to GitHub repositories

## TECHNICAL SKILLS

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**Languages:** C++, Java, Python, SQL, TypeScript

**Developer Tools:** Git, VS Code, Visual Studio, IntelliJ

**Frameworks:** Angular, React