

MELVIN THOOMPUNKAL

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PROFESSIONAL SUMMARY

Motivated Computer Science undergraduate entering sophomore year with hands-on experience in web development, blockchain applications, and Java socket programming. Skilled in Python, Flask, Java, and front-end technologies with a strong foundation in data analysis and machine learning (Pandas, scikit-learn). Recognized for problem-solving, collaboration, and fast learning, with a proven ability to design and implement scalable, user-focused applications.

EDUCATION

New Jersey Institute of Technology

Expected May 2028

B.S. in Computer Science

Dean's List (2025)

Relevant Coursework: Introduction to Java, Calculus II

EXPERIENCE

Freelance Web Developer | Remote – NJ

Sep 2023 – May 2024

- Optimized user engagement & retention **over 50%** by deploying responsive websites using **HTML, CSS, JavaScript, Python, & Flask**, resulting in boosted conversion rates
- Elevated client **satisfaction by 30%** by orchestrating the creation of custom web applications, delivering tailored solutions that boosted operational efficiency
- Enhanced website visibility & performance by **SEO & Google Analytics**, leading to a 70% increase in web traffic

PROJECTS

Blockchain Credit Score System | Python, Blockchain, Data Structures, Smart Contracts

- Accelerated credit score calculations by **30%** using decentralized blockchain technology & Python Brownie smart contracts, while incorporating alternative data sources to strengthen data security
- Streamlined transaction validation & block creation by utilizing blockchain technology and Python, **boosting transaction efficiency by 20%** through advanced encryption algorithms
- Showcased the transformative potential of **Ethereum-based smart contracts** in fintech applications, driving innovation beyond traditional credit systems

Java Socket-Based Chat Application | Java, Sockets, Swing, Multithreading

- Elevated client-server interactions by **25%** through the orchestration of a **real-time chat system** utilizing java sockets for efficient message handling
- Boosted user experience by generating a **GUI with Java Swing** for server management & client messaging
- Elevated process efficiency through **multithreading in Java** to support simultaneous connections

Stock Market Analysis Tool | Python, Pandas, yFinance, Google Sheets API, Matplotlib

- Streamlined financial analytics program to efficiently retrieve real-time market data & compute essential technical indicators (**SMA, EMA, RSI, MACD, Bollinger Bands, OBV, etc.**) Significantly enhancing analysis & trading skills
- Orchestrated data organization & visualization through **Google Sheets API** with **Python scripts & JSON formats**
- Coordinated with creation of advanced plotting functions using **Matplotlib** to significantly improve **data visualization by 50%** allowing for enhanced trend analysis
- Elevated data analysis efficiency by integrating Python scripts & customized stock analysis through time ranges

TECHNICAL SKILLS

- Languages & Frameworks: Python, Java, JavaScript, Pandas, TensorFlow, Pytorch, Scikit-learn, C++
- Web Development: Responsive Design, API Integration, SEO Best Practices
- Blockchain & Systems: Decentralized Application Design, Data Structures, Transaction Validation
- Programming Concepts: Multithreading, Asynchronous Programming, Socket Programming