

# Matthew Li

601-278-5741 | matthewli73303@gmail.com | linkedin.com/matthew-li733 | github.com/MathewLie

## EDUCATION

### University of Florida

*Bachelor of Science in Computer Science*

Gainesville, FL

*August 2021 – May 2025*

- GPA: 3.73/4.00
- Relevant Courses: Programming Fundamentals 1 (Java), Programming Fundamentals 2 (C++), Data Structures and Algorithms, Introduction to Computer Organization, Linear Algebra

## EXPERIENCE

### C Spire

*Software Engineer Intern*

Ridgeland, MS

*June 2023 – July 2023*

- Implemented a logging solution to track, record, and reprocess the 500,000+ weekly emails and SMS messages sent to all customers using Apache Kafka
- Enhanced legacy service by implementing Kafka Producers to queue emails and SMS messages as AVRO records, thereby establishing a comprehensive log for tracking details of sent messages
- Developed a Scala-based microservice to optimize company communication flow, leveraging Kafka Consumers for message integration into the Oracle Database
- Engaged within the company release cycle and cooperated with the Quality Assurance team to implement fixes and prepare builds for testing
- Technology used: Java, Scala, HTML, JavaScript, Spring, Tomcat, Kafka, Oracle SQL, SOAP, REST, Ansible

### US Army Engineer Research and Development Center

*Software Engineer Intern*

Vicksburg, MS

*May 2022 – August 2022*

- Designed Python programs for remote data analysis on Raspberry Pi workers using a Dask distributed cluster
- Presented key deliverables at a symposium for ERDC and DEVCOM, the Army's technology leader and developer
- Drafted research paper for Department of Defense High Performance Computing Modernization Program (HPCMP) to onboard future engineers utilizing Dask
- Technology used: Python, Linux, Dask, Raspberry Pi, Pandas, parallel/edge computing, Jupyter Notebook

## PROJECTS

### PokeMove Dex | *Python, Flask, React, Git*

*May 2023*

- Collaborated with 2 others to develop a full-stack web application using a React frontend and Python backend API
- Integrated a splay tree and hash map data structure to allow for quick retrieval of frequently accessed elements
- Consumed external REST API to retrieve image data and properly handled errors for missing assets

### Pocket Pantry | *Next.js, Typescript, Flask, Firebase, Python, Deep Learning Technologies*

*October 2023*

- Craft Flask API, integrating with Firestore using OpenAI's GPT-3.5 recipe generation and our fine-tuned BERT
- Supported frontend with Next.js, ensuring cohesive integration with backend functions via API connections
- Chosen as one of the final 9 teams to present to the National SASE Collegiate and professional recruiters

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, Scala, HTML, JavaScript, LaTeX, SQL

**Developer Tools:** Git, GitLab CI/CD, Linux, IntelliJ, Akka, Docker, Kafka, JIRA, Oracle SQL, Ansible

**Frameworks:** React, Flask, Spring

**Libraries/Services:** Pandas, NumPy, Dask, Dask Distributed, Tomcat

## INVOLVEMENT AND SERVICE

### First Year Leadership Program | *President*

*May 2022 - 2023*

- Led 5 event planning committees for 100+ members which resulted in an average of 150 attendees for each event
- Planned academic mentor and mentee pairing program with 200+ applicants and managed all 100+ pairings
- Organized and held 8 general body meetings where members learn about leadership skills and are informed on current Asian Pacifica Islander Desi American (APIDA) issues