

# Leeon Israel

(843) 995-8888 | leeonisrael@gmail.com | [Personal Portfolio](#) | [linkedin.com/in/leeonisrael](#) | [github.com/leeonisrael](#)

## Education

### University of South Carolina College of Engineering and Computing

Columbia, SC

Bachelor of Science: Computer Science | Minor: Business Information Management

Expected May 2026

Major GPA: 4.0/4.0 | GPA: 3.7/4.0, Dean's List 3x, College of Engineering and Computing First-Generation Scholar

Relevant Coursework: Algorithmic Design I, II, Explore Engineering Computing, Linux/Unix Fundamentals, Software Engineering,

Web Applications, Computer Hardware Foundations, Advanced Programming Techniques, Discrete Mathematics for Computer Science

## Technical Skills

**Languages/Frameworks:** Java, JavaScript, C++, Python, HTML, CSS, React, Bash, Node.js, Express.js, Kubernetes, Docker

**Others:** MongoDB, SQL, Git, Nginx, Firebase, AWS, Postman, OpenSearch, Grafana, RESTful API, Web API, Selenium, JSON, YAML

## Professional Experience

### John Deere

Moline, IL

Software Engineering Intern

May 2024 - Present

- Contributing to the Platform Engineering team by utilizing Python for Retrieval Augmented Generation (RAG) in a compound artificial intelligence system
- Enhancing artificial intelligence output efficiency by improving vector embeddings in an OpenSearch database

### Artificial Intelligence Institute at University of South Carolina

Columbia, SC

Artificial Intelligence Research Intern

January 2023 – May 2024

- Observed 450+ hours of graduate and PhD students conducting research on integration of machine learning technology and knowledge graphs through development and execution of functional research projects
- Integrated JavaScript and Python for patient assessment by manipulating JSON files and leveraged them to artificial intelligence a large-language model, reduced evaluation time by 70% and achieved 95% accuracy in identifying critical issues
- Crafted React.js front-end application for mental healthcare artificial intelligence chatbot by scraping assessment data and programming intuitive interface application for improved symptom identification and user interaction

### Empowered Buildings

New York City, NY

Full Stack Software Engineering Intern

June 2023 - September 2023

- Utilized Node.js to conduct data scraping techniques within Selenium and JavaScript to extract and update financial information from third party applications, reducing manual data entry time from users by 95%
- Implemented MongoDB to expertly manage and seamlessly connect 300,000+ data documents to custom React.js application, resulted in a substantial reduction of 40% in data retrieval time
- Developed custom RESTful API to fetch data from two MongoDB collections, using React.js to create user interface displaying 7,000+ nested API parameters in organized table with 10,000+ data documents, efficiently routing between 12+ files

## Early Career Exploration Programs

### SEO (Sponsors for Educational Opportunity)

Remote

SEO Tech Developer

May 2024 - Present

- Engaging in 5+ meetings per week, learning the principles of computer science and software engineering
- Utilizing 35+ hours per week to write code for projects, attend lectures, stand-up meetings, and teaching assistant meetings

### Bank of America

Remote

Global Technology Early Insights Fellow

January 2024

- Engaged with 12+ Bank of America Software Engineers and participated in four+ conferences and meetings to gain exposure

### HeadStart Fellowship

Remote

Technology Fellow

January 2023 - April 2023

- Participated in a selective program of 78 students from 600+ applicants to enhance problem-solving abilities and technical understanding through participation in student-led programming, workshops, and specialized events
- Acquired knowledge of potential career opportunities within the technology field through in-depth industry exploration and case study analysis with 5 weekly meetings and learning sessions with 1 on 1 mentors

## Projects

### Instagram Clone Application | [Demo](#) | [GitHub Repository](#)

React.js | Firebase | CSS | Node.js | Chakra UI | Vite

- Developed scalable Instagram clone, replicating the user interface and application functionality with over 10,500+ lines of code
- Implemented React.js and Firebase-driven platform enabling Google third-party login, post creation, post interaction, profile editing, search functionalities, and profile following

### Weather Application | [Demo](#) | [GitHub Repository](#)

React.js | CSS | Node.js | ASP.NET Web API

- Integrated a public API to fetching real-time weather data for 4,000,000+ locations, updating hourly to provide accuracy
- Utilized React.js to create a responsive and performant interface, resulting in average page load time of less than 1.5 seconds