

PROFESSIONAL SUMMARY

Junior Software Engineer with 3 years of experience designing and implementing scalable APIs and efficient backend systems. Skilled in MongoDB, Firebase, Express.JS, Next.js, and Python, alongside frameworks like Django Rest and Flask. Currently interning at SuperINTRO, I am contributing to an ambitious project to democratize Social AI agents for networking by leveraging advanced tools like LangChain, Retrieval-Augmented Generation (RAG), and Large Language Models (LLMs). My experience in an Agile Environment has allowed me to effectively work with cross-functional teams, ensuring the Delivery of Project milestones while adhering to Quality Standards. Proficient in Cloud-Based platforms like Google Cloud Platform (GCP) and Docker, I specialize in building robust, scalable systems and integrating AI-driven solutions. My coding proficiency includes JavaScript and ES6, and I have hands-on experience with React and React.js. My expertise also includes REST API development, enterprise integration, and production support, ensuring stability and performance optimization. Passionate about innovative technologies, I bring a strong foundation in system design, troubleshooting, and stakeholder-focused project execution, including developing comprehensive Software Documentation for various Software Projects.

EDUCATION

University of South Florida, Tampa
Master of Science in Computer Science
August 2023 – May 2025
GPA: 3.4

CORE COMPETENCIES

- **Programming Languages:** Python, C, C#, C++, Java,
 - **Generative AI:** Azure OpenAI, Azure AI search GPT-4, Fine-Tuning, Text Generation, Retrieval-Augmented Generation (RAG), Large Language Models (LLM), Gemini API, AutoGen
 - **Machine Learning:** Supervised and Unsupervised Learning, Classification, Regression, Clustering, K-Means Clustering, KNN, Decision Trees, Ensemble Methods
 - **Web Technology:** HTML, CSS, JavaScript, AngularJS, ReactJS, React.js, NextJS, NodeJS, and jQuery
 - **Databases:** MySQL, Azure SQL, MongoDB, Postgres
 - **Data Visualization:** Matplotlib, Seaborn, Power BI
 - **Cloud Platforms:** AWS, Azure, Google Cloud Platform (GCP)
 - **Tools:** Anaconda, Git, Docker, Development Tool, Software Development Tool, Version Control, JIRA
 - **Agile Practices:** Effective Communication and Interpersonal skills, assisting in project planning and budgeting activities.
 - **Technical Proficiency:** Skilled in Problem Solving, Technical Issue resolution, and maintenance of systems.
 - **Team Member:** Collaborated with teams on various projects, facing Challenges during Implementation and working towards solutions embracing New Technology and enhancements in Security.
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WORK EXPERIENCE

Social AI Development Project | SuperINTRO | NOV 2024 – PRESENT

- **Responsibilities:** Designing and developing scalable APIs, building robust backend systems, integrating advanced AI functionalities, and deploying AI-powered solutions leveraging cloud technologies and frameworks in an Agile Environment.
- **Description:** Currently contributing to an ambitious project aimed at democratizing Social AI agents for networking. The project focuses on developing impactful AI-driven solutions by harnessing cutting-edge technologies like Generative AI, NoSQL databases, and scalable system design.
 - Designed and implemented scalable APIs using Python, Django Rest Framework, and Flask, ensuring adherence to **Quality Standards** to support AI-powered agent functionalities.
 - Utilized tools like LangChain and Retrieval-Augmented Generation (RAG) to enhance AI-driven decision-making and natural language understanding.
 - Integrated large language models (LLMs) and OpenAI technologies to power intelligent, automated interactions for seamless user networking experiences.
 - Optimized backend systems using MongoDB, Firebase, and Node.js to ensure high performance, reliability, and scalability. Leveraged Docker and Google Cloud Platform (GCP) for efficient deployment, monitoring, and scaling of the AI systems.
 - Conducted regular **Code Reviews** and collaborated with cross-functional teams to align project goals and ensure seamless execution of deliverables.

Generative AI Project | MAY 2024 – OCT 2024

- **Responsibilities:** Data gathering, preprocessing, model tuning, embedding AI search capabilities, and deploying a fully functional AI system into Azure Function App.
- **Description:** Led a project aimed at building an AI-powered system to extract information from multiple sources including databases, PDFs, and Word documents. The project involved using OpenAI and Azure AI search to optimize data retrieval and relevance, followed by tuning the AI model to achieve a 90% accuracy rate before deploying it in a production environment via Azure cloud services.
 - Utilized Azure OpenAI's GPT-4 for fine-tuning natural language understanding and text generation, showcasing strong coding skills and a focus on automation. Embedded Azure AI search to improve information retrieval efficiency from large datasets. Deployed the system using Azure Function App for scalability and performance.

Deep Learning & OCR – Number Plate Detection | 2023 – 2024

- **Responsibilities:** Trained custom YOLO models, implemented custom Optical Character Recognition (OCR) models, and deployed them as an API service.
- **Description:** Developed a system to detect vehicle number plates in video streams using a custom-trained YOLO model for object detection. The project aimed to improve the speed and accuracy of recognizing objects from video feeds and extracting text from number plates.
 - The YOLO model was customized and trained to detect number plates with an accuracy of 95%.
 - A custom OCR model was built to extract alphanumeric characters from the detected number plates, improving the text extraction accuracy and overall system performance.
 - The system was deployed as an API service, allowing integration with other applications that require real-time object detection and text extraction, facilitating seamless operations.

Machine Learning – Targeted Article Recommendation System | 2022 – 2023

- **Responsibilities:** Data collection, preprocessing, model training, and deployment.
- **Description:** Built a machine learning-based recommendation engine to suggest targeted articles to users based on survey responses. The system processed survey data to identify user preferences and used supervised learning algorithms to recommend content with high relevance.
 - Achieved 98% accuracy in recommendation predictions through hyperparameter tuning and model optimization.
 - Deployed the system in production to serve personalized content recommendations for an online platform.

INTERNSHIP EXPERIENCE

AI Full-Stack Engineer Intern

SuperINTRO | November 2024 – Present

Project: Social AI Agent Development for Scalable Networking

Responsibilities: Designed and developed scalable APIs and backend systems using Python, Django, Flask, MongoDB, and Firebase. Integrated advanced AI tools like LangChain, Retrieval-Augmented Generation (RAG), and Large Language Models (LLMs) to enhance AI-driven functionalities.

Description: Contributed to the development of AI-powered Social Agents for networking by building robust backend systems and scalable APIs. Leveraged state-of-the-art tools and frameworks to improve system efficiency and reliability. Successfully deployed the solution using Docker and Google Cloud Platform (GCP), enabling seamless operations and scalability.

Python Developer Intern

SHIAH INFO SOLUTIONS | November 2022 – January 2023

Project: Real-time Data Pipeline for E-commerce Analytics

Responsibilities: Designed and implemented a scalable data pipeline for processing real-time e-commerce data, enabling dynamic reporting and visualization.

Description: Developed a real-time data processing system using Python, integrating it with a visualization tool for e-commerce analytics. This system improved the forecasting accuracy of sales by 30% by enabling rapid access to live data and analysis. Leveraged Python's robust data handling libraries to build a pipeline that processed millions of records in near real-time, providing actionable insights and improving decision-making for business strategies.

CERTIFICATIONS

- Artificial Intelligence Foundations: Machine Learning (LinkedIn)
- Microsoft Certified: Azure Fundamentals
- Data Science and Machine Learning Bootcamp with Python (Udemy)

Availability: Open to internships, full-time opportunities, and collaborations, particularly in product management, finance, and supply chain sectors.