

SHREYAS NITIN PUJARI

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WORK EXPERIENCE

Teaching Assistant - Cybersecurity and Cyber Defense

Sep 2024 - May 2025

University of Colorado | *RSA, AES, Hashing, Cybersecurity Practices*

USA (On-site)

- Facilitated instruction in Cryptography, Cyber Security Programming, and Cyber Infrastructure Defense by leading labs and demonstrations on secure coding practices, system hardening, and encryption techniques.
- Assisted students in understanding complex cybersecurity concepts and resolving programming issues through one-on-one mentoring, office hours, and project collaboration, with a focus on real-world security applications.
- Collaborated with faculty to design hands-on labs, improve course materials, and develop assessments aligned with industry-relevant cyber defense scenarios and best practices.
- Evaluated student performance by grading assignments, projects, and exams, delivering constructive feedback to enhance technical proficiency and reinforce academic integrity.

Intern – Warehouse Management System

May 2024 – Aug 2024

Rubistone Technologies | *ZPL, Python, REST APIs, Software Development*

USA (Remote)

- Contributed to software development of a warehouse management system during a part-time internship under Curricular Practical Training, gaining real-world experience in logistics-focused applications.
- Enhanced operational efficiency by implementing features for inventory tracking, shipping workflow automation, and cost optimization.
- Automated shipping processes by integrating Projistics to generate ZPL shipping labels and calculate costs dynamically, reducing manual effort and errors.

Software Engineer I – Cloud Infrastructure and Network Engineering

Sep 2022 – Jul 2023

Infoblox | *Python, VMWare vRealize, Infoblox NIOS, IPAM Tools, AWS Route 53*

India (Hybrid)

- Designed and implemented IP Address Management (IPAM) workflows using VMware vRealize Automation and Orchestrator, improving efficiency in network provisioning.
- Configured and managed DNS/DHCP services via Infoblox NIOS to enhance network availability, reliability, and security.
- Automated IP range extraction through vSphere to streamline IP allocation for virtual machines, reducing manual provisioning time.
- Built and optimized DNS configurations on AWS, improving scalability and operational stability of cloud-based network services.
- Deployed an Infrastructure-as-Code (IaC) plugin, enabling consistent, cross-platform connectivity across hybrid cloud environments.

Analyst – Chatbot Development

Aug 2020 – Sep 2022

Schneider Electric | *C#, Conversational AI, API Integration, Power BI, NLP*

India (Hybrid)

- Developed enterprise-grade conversational AI solutions by designing and deploying chatbots across diverse business domains to improve automation and user interaction.
- Built a procurement chatbot adopted by over 1,000 employees, significantly improving query resolution speed and internal workflow efficiency.
- Designed interactive Power BI dashboards to track chatbot performance metrics, enabling data-driven optimization and stakeholder reporting.
- Established scalable development processes and standards for the chatbot team, ensuring consistency, maintainability, and faster iteration cycles.

Intern – Chatbot Development

Jan 2020 – May 2022

Schneider Electric | *AI and Software Development*

India (Hybrid)

- Gained organizational insight into business structure, values, and operational workflows through an internship in the AI Hub Department.
- Developed hands-on proficiency in C#, Microsoft Bot Framework, and Microsoft Cognitive Services by actively contributing to internal chatbot initiatives.
- Designed and delivered a standalone chatbot project showcasing acquired technical skills and understanding of conversational AI development.

Intern – NLP and Web Development

Jun 2018 – Jul 2018

Design Esthetics | *Python, Google+ APIs, HTML, Sentiment Analysis, NLP*

India (On-Site)

- Engineered a sentiment analysis system leveraging the Google+ API to extract user-generated content and assess emotional tone through a custom-built NLP analyzer.
- Developed and deployed a RESTful web application with a responsive UI to deliver real-time sentiment insights, enhancing user experience and data accessibility.

PROJECTS

Dynamically Encrypted Key Exchange Protocol(DEKX)

- Developed and implemented a smart car locking system that ensures that each attempt to access the vehicle is secured by a unique one-time password.
- The protocol uses a dynamic encryption method to secure the one-time passwords and also resets the password to a new one once the user has accessed the vehicle ensuring safety of the vehicle.

Document Clustering and Semantic Search on Stack Overflow Data

- Applied advanced sentence embeddings using Sentence Transformers (all-MiniLM-L6-v2) to semantically vectorize Stack Overflow questions and answers.
- Designed and compared KMeans, DBSCAN, and HDBSCAN clustering techniques to group questions by topic, enabling thematic question retrieval.
- Developed a Flask-based web application that visualizes clusters through interactive word clouds and supports search functionality by question and tag.
- Achieved intuitive and coherent cluster groupings evaluated via silhouette scores, improving discoverability and organization of developer QA content.

Custom Key Management System Drive (KMS)

- Worked on a project in association with Hewlett Packard Enterprise
- Built a custom key management system using Python-Flask and AES Standard Keys
- It partially mimics the AWS Key Management System where, in case there is no key from the user then a master key is given to encrypt, upload and retrieve the data, the project also shows an example of 2 level encryption using the SHA256 encryption algorithm.

EDUCATION

MS, Computer Science | University of Colorado Denver, USA | GPA: 3.90/4 Aug 2023 - May 2025

Courses: *Algorithms, Computer Architecture, Cybersecurity and Cyber Defense, NLP & Gen AI*

B.Tech, Computer Science | PES University, India | GPA: 7.81/10 Aug 2016 - May 2020

Courses: *Algorithms, Data Structures, Object Oriented Programming, Data Science, Machine Learning, Cloud Computing*

TECHNICAL SKILLS

Languages: Python, C, C++, C#, Java, Swift, JavaScript, SQL

Framework: Microsoft Bot Framework, Language Understanding (LUIS) and Microsoft QnA Maker

Databases: MySQL, MongoDB, SQLite, Excel, JSON

DevOps & Tools: Git, GitHub, Jenkins, Jira, Azure DevOps

Concepts & Practices: REST APIs, vRealize Automation, vRealize Orchestrator, Hadoop, Docker and Container, Sentence-BERT, Flask Web App