

KEERTHI MANIKONDA

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CAREER OBJECTIVE

Passionate about building scalable applications and contributing to impactful software solutions. Seeking an entry-level position in a growth-oriented organization where I can apply my knowledge, gain practical experience, and contribute to the company's success while developing my professional skills.

EDUCATION

Vasireddy Venkatadri Institute of Technology	2021-2025
Bachelor Of Technology , Computer Science and Engineering	CGPA: 8.84
Sri Chaitanya Junior College	2019-2021
Board of Intermediate Education, Andhra Pradesh	Percentage: 98.0%
Sri Geetanjali E.M High School	2018-2019
Board of Secondary Education, Andhra Pradesh	GPA: 10

SKILLS

Programming Languages: Python, Java(Basics)
Web Development: HTML5, CSS3, JavaScript, RESTful API
Databases: MYSQL
Frameworks: FASTAPI, Visual Code
Search & Analytics: OpenSearch, ElasticSearch(Basics)
Containerization: Docker, Kubernetes,Linux

EXPERIENCE

Castellum Labs | Security Trainee(July 2025 - Present)

WatchOut Platform — Authentication & Authorization Service

Tech Stack: Python, Fast API, JWT, RBAC, MySQL, REST APIs

Responsibilities:

- Designed and implemented JWT-based login, token validation, and session security.
- Built role-based access control (RBAC) and privilege grids to manage granular user permissions (C,R,U,D).
- Developed secure protected RESTful API endpoints with authorization middleware.
- Integrated user roles, privilege mapping, and access rules into relational database architecture.

PhishBlaze Platform -Queue Builder and Email Dispatcher Backend service

Tech Stack: Python, FastAPI, Redis, MySQL, Async Task Dispatching

Responsibilities:

- Built a Redis task queue generated from campaign records stored in MySQL.
- Developed a Queue Builder component to fetch, format, and push campaign tasks into Redis.
- Designed and implemented a Dispatcher module to consume queue messages and determine execution flow.
- Implemented queue prioritization and routing logic to handle campaign tasks efficiently at scale.

Telegram File Monitoring & Stealer Log Scanner — Backend Service

Tech Stack : Python, Fast API, My SQL, Telethon, Recursive archive extraction (.zip, .rar)

Responsibilities:

- Built an automated stealer log monitoring pipeline using Telethon to download and process files from multiple Telegram channels.
- Implemented recursive and nested extraction for .zip and .rar archives with large-scale archive handling.
- Designed a high-performance keyword scanning engine that stores matched lines with timestamps and file context.
- Persisted all scan results with metadata into MySQL to enable structured querying for threat and breach analysis.

OSI Digital | Software Engineer Intern(Feb 2025 - Apr 2025)

File Upload/Downloader

Tech Stack : Python, FastAPI, MySQL, JWT, RBAC, bcrypt, Access-controlled File APIs

Responsibilities:

- Designed and developed a secure file upload and download REST API with per-user storage isolation.
- Implemented directory-level access control and authorization middleware to enforce file permissions.
- Built authenticated file operations using JWT-based login and RBAC authorization checks.
- Ensured secure handling with bcrypt password hashing, token validation, and protected routes.

PROJECTS

Efficient VGG-16 model for Brain Tumor Detection and Classification in MRI Scans

- Developed an efficient VGG-16 based deep learning model for brain tumor detection and classification using MRI scans.
- Integrated Squeeze-and-Excitation (SE) attention mechanism to enhance feature extraction and model accuracy.
- Implemented a two-phase training strategy with transfer learning and fine-tuning for optimized performance.
- Achieved high accuracy with detailed evaluation metrics and visualizations for model interpretability.

DECLARATION

I hereby solemnly accept that all the information provided above is true and accurate to the best of my knowledge.