

ARYAN AGRAWAL

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EDUCATION

Virginia Tech, Virginia, USA	May 2025
Master's of Engineering in Computer Science and Applications	
Courses: Data Structures & Algorithms, Web Development, UI/UX , Cloud Computing, AI Tools in Software Delivery	
Jaypee University of Information Technology, India	July 2017 - June 2021
Bachelor of Technology in Information Technology	

PROFESSIONAL EXPERIENCE

Iris Software Inc. (LifeScan Team), Edison, NJ, USA Link	June 2024 – August 2024
Software Engineer Intern	
<ul style="list-style-type: none">Developed MAIA, an advanced GenAI-powered chatbot and workflow application using Python, LangChain, and Streamlit. The platform featured image generation, the creation of a Knowledge Base for custom LLMs, and Excel integration, aimed at optimizing business processes and improving productivity.Led the transition of the frontend from Streamlit to ReactJS, which improved user engagement by 25% and reduced page load time by 40%.Deployed cloud infrastructure on AWS & Azure using Docker and ECS for scalability.Optimized backend workflows & AI agent automation with Azure & DynamoDB, improving efficiency by 30% and reducing data retrieval time by 25%.Enhanced LLM training via prompt engineering, improving processing speed by 35% and result accuracy by 50%.	
Vikreed Solutions, Pune, Maharashtra, India Link	July 2021 – July 2023
Software Engineer	
<ul style="list-style-type: none">Benelevate – Financial Aid Calculation Portal<ul style="list-style-type: none">Built a Python-based backend to automate student waiver calculations using Pandas & NumPy.Integrated dynamic PDF generation with ReportLab & WeasyPrint for waiver summaries.Hays Groundwater – Water Level Monitoring Platform<ul style="list-style-type: none">Developed and maintained backend services to fetch, store, and visualize water-level data in Texas counties using Node.js, Express, and MongoDB.Designed real-time data visualization dashboards using Chart.js and React.Ensured secure role-based access to sensitive groundwater data using JWT Auth.LearnForbes – Content Upload Automation System<ul style="list-style-type: none">Architected a content ingestion pipeline that allowed course vendors to upload and categorize educational material using Django Rest Framework.Integrated Learning Management System (LMS) APIs to manage course content across platforms.	

ACADEMIC PROJECTS

Ecommerce Platform (Remediwave) <i>Django, Javascript, HTML, CSS, PostgreSQL, Ajax, Microsoft Azure, Python</i>
<ul style="list-style-type: none">Developed an e-commerce website with a user-friendly interface using HTML, CSS, and JavaScript.Implemented Django's MVC architecture with PostgreSQL for efficient data storage, improving code maintainability by 30% and reducing new feature development time by 20%.Leveraged Microsoft Azure for human-AI interaction, enhancing user experience and reducing customer support queries by 20%.
Online Bookstore System (Biblobazar) <i>Figma, HTML, CSS, JavaScript, Node.js, React, MySQL, REST APIs, JQuery</i>
<ul style="list-style-type: none">Designed UI in Figma and implemented it in React, utilizing Router, hooks, props, and context API.Engineered Java backend with Jakarta EE and Eclipse Jersey Server for RESTful APIs.Optimized data persistence using DAO, JDBC, and MySQL for secure storage.
Personalized Cover Letter Generator (MyCoverKraft) <i>Streamlit, Python, NLTK, OpenAPI, NLP</i>
<ul style="list-style-type: none">Built a tool to automate personalized cover letter creation, reducing user effort. Developed the frontend with Streamlit, backend with Python & NLTK, and integrated OpenAPI for enhanced customization.

TECHNICAL SKILLS

<ul style="list-style-type: none">Programming languages: Java, Python, C/C++, Git, .NET, Javascript, Kotlin, Golang, C#Web Technologies: HTML/CSS, Tailwind CSS, Typescript, React, Node.js, REST APIs, FastAPI, Redux, GraphQL, Angular, Kubernetes, NextJS, Full-stack, ES6, Spring, Hibernate, Apache, Gradle, Maven, VueDatabases/Cloud: MySQL, PostgreSQL, AWS, CI/CD, SQL, GCP, Kafka, Jenkins, NoSQL, OracleMethodologies: Agile, RESTful Architecture, Responsive Design, Prompt Engineering, Machine learning, Shell scripts, End-to-end, JUnit, DevOps, Database, Problem-solving, SaaS, Workflow, Machine Learning, Unity, Pytorch, TensorFlow, computer vision, deep learning
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