Anuraag Deepak

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EDUCATION

BS in Computer Science, Minor in Statistics (GPA: 3.7 / 4.0)   May 2026

Relevant Coursework: Data Structures & Algorithms, Computer Systems, Programming Languages, Program Design, Software Engineering, Cloud Computing with AWS, Computer & Network Security, Cyber Security Law and Policy, Accessible Computing, Human Computer Interaction, Statistical Computing using R, Computational Data Science

EXPERIENCE

AI & Software Engineering Intern — HCL Technologies, India   Jun – Aug 2025
• Developed an AI-based lottery claim verification system using React, MobileNet, Tesseract OCR.
• Built backend using Node.js + Express with PostgreSQL database.
• Automated ticket validation workflow integrating full ML + backend pipeline.

AI Project Development — DLZP Group, Houston, TX   May – Jun 2025
• Built Generative-AI medical chatbots with Ollama + Streamlit.
• Created RAG pipelines improving domain-specific response accuracy.

R&D Intern — Arkisys Aerospace, CA   Jun – Aug 2023
• Performed thermal analysis to prevent satellite overheating.
• Worked cross-functionally with mechanical and business teams.

HR Administrator — City of Missouri City, TX   Jul– Aug 2023
• Maintained HR employee records and supported onboarding workflows.

PROJECTS

Web Site for TAMU Vertical Flight Society club |Ruby on Rails, HTML, CSS, PostgreSQL, Heroku, Jira
• Built web portal used by members, Admin, Sponsors & non-members with authentication (Google OAuth), authorization to access specific pages, Admin had CRUD functionalities to handle application form during sign up period, accept & promote roles, new letters, access resumes uploaded by members, manage resume bank
• Used Test Driven Development with Rspec
• Engineered CI/CD with Github actions and deployed using Heroku.
• Project executed with Agile Scrum approach in 3 Sprints

Point of Sale (POS) Inventory System |React JS, Node.js, PostgreSQL, Jira
• Create a Point of Sale (POS) Inventory system to reduce overhead, track customer orders to analyze ordering trends & restock inventory.
 • Generate database in AWS using Python script. Evaluate the database system using SQL queries for sales history, peak sales, menu item inventory.
• Implement a GUI to support customer, cashier and manager for the purpose of submitting orders, updating items, prices, restock inventory, manage employees and create reports.
• Frontend design using React JS for building user interfaces, React Router for navigation between pages. The backend was built using Node JS for server logic and API calls, PostgreSQL for accessing data storage, Axios to handle API requests
• Project executed with Agile Scrum approach in 3 Sprints

Prediction of International Football matches |NumPy, Pandas, Seaborn, Sklearn, Mathplotlib
• Build a Machine Learning model using historical dataset of matches by cleaning the dataset, creating meaningful variables from the dataset to be used for match outcome prediction
 • Creation of Training and Test datasets using Cross validation
• Exploratory Data Analysis using Logistic Regression, Random Forest models with Confusion matrix & Classification report
• Determination of Coefficients& identifying key features for model prediction

Wayfinding AI App for people with low vision using Smart glasses |Python, gradio, gTTs, OpenAI

• Build a Gradio App which accepts image and text prompt (destination)
• Use OpenAI's API to get navigation instruction plus JSON direction tag
• Use Google Text to Speech (gTTS) to generate audio from returned text
• Display text, play the audio and show a signal

Seamless AI Collaboration in Writing (Flowrite Extension) |React JS, Typescript, HTML, CSS
• Build AI based Chrome extension for Google docs integrated directly with writing environment maintaining full document context with adaptive tooltips, inline feedback and passive/active correction modes
• Applied Human Computer interaction principles to study user interaction patterns, ran evaluations, delivered secure interface
• Support accessibility for all users with dark mode

Wordle Game |Java + JavaFX

Resume Website |HTML, CSS, JavaScript

TECHNICAL SKILLS
Languages: Python, Java, C++, JavaScript, CSS, HTML
Libraries/ Frameworks: React, Node.js, Express, Ruby on Rails, NumPy, Pandas, Seaborn, SKLearn
Databases: SQL, PostgreSQL
AI/ML: Generative AI, RAG, OCR, MobileNet
Tools: Git, GitHub, Docker, Amazon Web Services, R Studio, Jira

CERTIFICATIONS
• Introduction to Cluster Computing — UH HPE DSI
• AWS Certified Cloud Practitioner

STATEMENT OF ACCOMPLISHMENTS FROM DATACAMP
• Introduction to Git
• Introduction to GitHub Concepts
• Introduction to Data Visualization with Seaborn
• Introduction to SQL
• Introduction to NumPy
• Data Manipulation with Pandas

LINKEDIN LEARNING
• Ruby on Rails 7 Essential Training

ACTIVITIES
• Aggie Coding Club: Workshops, company talks, technical events