DHRUTI VADLAMUDI

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EDUCATION

University of Washington – Seattle, WA
B.S. in Computer Science | Minor in Business Administration and Computational Finance
GPA: 3.94
Relevant Coursework: Intermediate Data Programming, Computer Programming 1 and 2, Foundations of Computing 1 and 2, Hardware and Software Interface, Computer Vision, Machine Learning, Computer Security, Data Visualization, Calculus 1–3, Mechanics, Matrix Algebra, Marketing, Personal Finance, Economics

Technical Skills:
Python, C++/Java, JavaScript, C#, React, React Native, App Script, Git, OpenAI, Anthropic, scikit-learn, TensorFlow, PyTorch, n8n, Keras, LangChain, NeRF, COLMAP, RESTful APIs, client-server architecture, ServiceNow, SQL, NoSQL, Tableau, Excel (Power Tools), Jupyter, data analysis, A/B testing, optimization & decision modeling, BDD, unit testing, Agile development, SDLC, UiPath, RPA governance, change management, Microsoft 365, SharePoint, Teams, Viva Engage, Brainstorm LMS, ROS, QGIS, GeoPandas, Shapely, large codebase contribution, autonomous work style

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RELEVANT EXPERIENCE

AI Intern – Confluence Environmental Company
Hybrid | Jul 2025 – Present

- Developed and documented an NLP-based pipeline to generate environmental planning proposals, reducing manual drafting time by ~40%.
- Leveraged semantic search, summarization, and classification using BERT and transformer-based models, improving document processing accuracy by 35%.
- Built and maintained Python backend services with RESTful APIs to support AI workflows.
- Prototyped classification models using TensorFlow and PyTorch, increasing classification performance by 20%.
- Authored 25+ technical reports and automated reporting system to accelerate client deliverables.

Research Assistant – Foster School of Business
University of Washington, Seattle, WA | Nov 2024 – Jun 2025

- Cleaned and structured 10+ behavioral datasets using R and Python to support statistical research.
- Applied clustering and logistic regression models that improved prediction accuracy of decision-making patterns by 28%.
- Performed psychometric testing to validate models, increasing result reliability across 5+ experiments.
- Led independent data analysis projects that reduced faculty research turnaround time by 20%.

Data Insights Intern – Jammy
Seattle, WA | Dec 2024 – Mar 2025

- Developed interactive Python dashboards tracking user wellness metrics, used by 1000+ daily active users.
- Designed and executed A/B tests on mental health interventions, influencing 2 new product features.
- Built LLM summarization tools to analyze user feedback, reducing qualitative analysis time by 50%.
- Enhanced analytics pipeline scalability, reducing processing time by 35%.

AI Intern – Impact Financial Advisors
Seattle, WA | Jun 2024 – Aug 2024

- Automated 5+ data pipelines using RESTful APIs, Google Forms, and Excel tools
- Developed a Python-based LLM assistant that generated templated client summaries, reducing report creation time by ~30%.
- Integrated SQL and NoSQL storage systems to streamline access and management of financial data.
- Contributed to backend infrastructure and applied unit testing to ensure 95% test coverage.

Cybersecurity Research Intern – Seattle-Tacoma International Airport
Jul 2023 – Aug 2023

- Conducted security assessments of client-server applications, identifying 15+ vulnerabilities and reducing risk exposure by 30%.
- Built audit scripts that flagged 100+ misconfigured permissions, improving compliance response time by 40%.
- Implemented AI-powered log anomaly detection pipelines, reducing manual triage by 25%.
- Designed NIST/MITRE-aligned incident response plans, strengthening security readiness across 3 departments.
- Reorganized SharePoint for 200+ users, improving data security and reducing access issues by 25%.

PROJECTS & RESEARCH

Finsight, an AI-Powered Financial Forecasting Tool

- Creating full-stack platform using Python, React, and RESTful APIs
- Delivering personalized AI-generated financial "report cards", aimed to provide digestible insights on improving financial health

DubMarket, a Marketplace and Storage Finder for College Students

- Spearheading the design and pre-development of a peer-to-peer marketplace for college students to buy/sell dorm items and find local storage hosts
- Backed by UW Housing & Food Services, CSEED, and DubHacks ($1,000 grant).