

Anh Nguyen

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EXPERIENCE

Lead AI & Backend Engineer

Sep. 2025 – Dec. 2025

Starbound, HappyMapper | Python, Google Gemini Vision, Firebase, React Native

Long Beach, CA

- **1st Place, CSULB ACM Starbound Competition**
- Identified a market gap where Google Maps and Yelp do not surface happy hour deals, leaving consumers without a reliable discovery tool and local businesses without a channel to promote off-peak offers and drive foot traffic.
- Engineered an AI-powered data extraction pipeline that automatically pulls and updates happy hour listings from restaurant partners, achieving near-perfect accuracy and reducing processing time to under 10 seconds.
- Recommended data-driven product improvements that directly informed the decision to onboard restaurant partners, making the platform commercially viable.
- Presented business strategy and product findings to a panel of judges at the CSULB ACM Starbound Competition, earning 1st place out of all competing teams.

Lead Data Analyst & ML Engineer

May 2025 – Oct. 2025

PVNet | Python, YOLOv11, PyTorch, Pandas, CUDA, Jetson Orin Nano

Rolling Hills Estates, CA

- Led a cross-functional team as project lead, overseeing technical direction and delivery from early prototyping through final deployment.
- Translated raw camera footage into structured safety metrics, enabling stakeholders to identify high-risk e-bike zones and make targeted, data-backed decisions.
- Implemented CUDA acceleration on Jetson Orin Nano edge hardware, achieving a 3x speed improvement that made real-time monitoring operationally feasible.

PROJECTS

US Tech Salary Analysis & Prediction | *Python, Pandas, Scikit-Learn, Power BI*

Dec. 2025 – Jan. 2026

- Addressed the lack of salary transparency in tech, where professionals negotiate with no reliable benchmark for what their skills are worth.
- Built a predictive model on data from tens of thousands of developers, revealing a \$25K+ salary gap driven by a single skill difference and giving HR teams a framework for structuring compensation.

Global Space Launch Industry Analysis | *Power BI, DAX, Power Query*

Nov. 2025 – Dec. 2025

- Tackled the challenge of provider selection in commercial space, where multi-million dollar decisions are still largely reputation-based rather than data-driven.
- Built an interactive dashboard consolidating decades of global launch records, giving decision-makers a defensible framework to evaluate providers and strengthen contract negotiations.

Emotion Detection from Text | *Python, Scikit-Learn, NLTK*

Mar. 2025 – May 2025

- Identified a blind spot in customer communication where support teams routinely misread emotional intent, leading to mismatched responses that drive churn and damage brand trust.
- Developed a classification model detecting emotional intent across multiple categories, enabling teams to prioritize high-risk conversations and respond with the right tone.

TECHNICAL SKILLS

Analytics & BI: Power BI, Tableau, Pandas, Matplotlib, Seaborn, Excel

Data Science & Modeling: Machine learning, predictive modeling, NLP, computer vision, statistical analysis

Languages: Python, SQL, R, JavaScript

Databases: PostgreSQL, Firebase

Developer Tools: Git, GitHub, Jupyter, VS Code

Productivity: Microsoft Office Suite (Excel, Word, PowerPoint)

Business & Communication: Dashboard design, cross-functional team leadership, stakeholder presentations, Jira

EDUCATION

California State University, Long Beach

Long Beach, CA

Bachelor of Science in Computer Science | GPA: 3.65

Expected Graduation: May 2026

- Coursework: Applied Machine Learning, Data Visualization, Database Management, Algorithms, Artificial Intelligence
- Certifications: Google Data Analytics Professional Certificate
- President's Honor List, 2022 – 2024