

# Alp Niksarli

704-490-0246 | [alniksarli@davidson.edu](mailto:alniksarli@davidson.edu) | San Francisco Bay Area | [LinkedIn](#) | [GitHub](#) | [alpniksarli.com](http://alpniksarli.com)

## Education

<b>Davidson College</b>	Expected May 2027
<i>Bachelor of Science in Computer Science, Minor in Data Science (GPA: 3.84)</i>	Davidson, NC
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Deep Reinforcement Learning, Generative Models, Adv. Deep Learning, Natural Language Processing (TA), Computer Security, Vector Calculus, Theory of Computation, Software Design, Discrete Structures</li></ul>	

## Experience

<b>Amazon</b>	May 2025 – Aug 2025
<i>(AI/ML) Software Development Engineer Intern</i>	Sunnyvale, CA
<ul style="list-style-type: none"><li>Worked with the AGI team to build a multimodal AI assistant, projected 26% boost in developer productivity</li><li>Rebuilt my team's CI/CD pipeline using AWS CDK (Infrastructure as Code), automating future modifications by 80%</li><li>Initiated the biggest in-person hackathon in Amazon with 200 intern sign ups and got invited to AGI SVP's office</li></ul>	
<b>Forest Systems</b>	May 2024 – Aug 2024
<i>Software Engineering Intern</i>	Mountain View, CA
<ul style="list-style-type: none"><li>Optimized site infrastructure, boosting media render speed by 160% (PageSpeed) via caching and CDNs</li><li>Ensured security of application endpoints by Python scripts for site monitoring, reducing vulnerability risks by 75%</li></ul>	
<b>Fiverr - <a href="https://fiverr.com/alpnix">fiverr.com/alpnix</a></b>	Sep 2021 – August 2023
<i>Freelance ML Engineer</i>	Remote
<ul style="list-style-type: none"><li>Worked with 51 clients from all around the world on web scraping/automation and data science projects and gigs</li><li>Completed all orders successfully with 100% of the clients leaving 5-star reviews and got promoted by Fiverr</li><li>Developed a natural language processing (NLP) algorithm for sentiment analysis on chat messages of 80,000+ users</li><li>Assisted the migration of database systems from MongoDB to Elasticsearch, boosted query efficiency by 200%</li></ul>	

## Projects

<b>LLM Research in University of Edinburgh's Generative AI Laboratory</b>   <i>HuggingFace, PyTorch, Redis, WebArena, LLMs</i>	
<ul style="list-style-type: none"><li>Evaluated long-horizon agent performance on tasks like coding, navigation, and information retrieval, trying to improve the 24% agent success rate by improvements on planning, retrieval and memory</li><li>Worked on a multturn context augmentation framework to save, retrieve and rerank key info from task completions</li></ul>	
<b>GrotN</b>   <i>AWS Lambda &amp; SQS, Langchain, Pinecone, TypeScript, Next.js, Stripe, MongoDB</i>	
<ul style="list-style-type: none"><li>Scraped millions of housing listings and generated vector embeddings to power a Retrieval-Augmented Generation (RAG) rental search engine with sub-1200 ms query latency and worked on system design</li><li>Deployed the full stack Next.js app with Stripe API for payments, MongoDB for user data, and other microservices</li><li>Reached 500+ users, awarded over \$10,000 through pitching, and interviewed 70 engineers to build a team</li></ul>	
<b>Pragma</b>   <i>Pytorch, CUDA, OpenAI, Supabase, BeautifulSoup</i>	
<ul style="list-style-type: none"><li>Built a full RAG Pipeline with Google Search API and Ragas, ensuring state-of-the-art performance in data accuracy</li><li>Automated 2 GB of research data collection from the web across departments like sociology or education studies</li></ul>	
<b>Cats' Courses</b>   <i>Azure, Python, Flask, Firebase, Twilio, SMTP</i>	
<ul style="list-style-type: none"><li>Reverse engineered API endpoints to sent email notifications to Davidson students for spots in their desired classes</li><li>More than half of the campus adopted the app within 2 weeks, I was given a position with college's IT team</li></ul>	

## Skills

**Languages & Frameworks:** Python, JavaScript, TypeScript, React, PyTorch, SQL, Go, Next.js, Java, TensorFlow, Django  
**Dev Tools:** LLMs, Hugging Face, AWS, NumPy, Git, MySQL, CUDA, JAX, Postgres, Pinecone, Docker, APIs, Langchain, Vim

## Awards

**Academic:** 4th place in Turkish National Research Competition ([Paper](#)); Placed top 700 out of 1,200,000 high school students in the Turkish National Exam (0.05%); Bonner Scholarship; Xerox Award for Innovation & Information Technology  
**Hackathons:** [Optiver Winner](#) in Ada Hacks, [Best AI project](#) in HackHarvard; [1st place and Best use of Defang](#) in VandyHacks; [Best Generative AI project](#) in HackNC; [Best use of Taipy](#) in HopHacks; 1st place in Earthquake Relief Hackathon ([Patent Pending](#)); 1 of top 5 projects in Uber Global Hackathon; President of Hack@Davidson (\$20k in funding)