KEVIN GE

swe@gekevin.com · (806) 337-0839 ·
www.linkedin.com/in/akevinge · www.github.com/akevinge· www.gekevin.com

EDUCATION

The University of Texas at Dallas Bachelor of Science, *Computer Science,* GPA 3.85 Dec. 2025
Notable Coursework: Artificial Intelligence, Machine Learning, Advanced Data Structures & Algorithms, Operating Systems, Compiler Design, Digital Logic, Computer Vision

SKILLS

Languages: C, C++, Rust, Golang, Python, Typescript, Javascript, HTML/CS, Java, SQL, Bash/Shell
Software: ROS, Tensorflow/Keras, Docker, CMake, Bazel, REST API, RPC, Scikit/Pandas, Matplotlib/Seaborn
Fullstack: React.js/Next.js, AWS Lambda, Prisma.js, Postgres, DynamoDB, MongoDB, gRPC, GraphQL, Linux
Networking/Hardware: LiDAR, Motors, CAN, UART, TCP/IP, UDP, RTOS, Arduino, ESP32, Solidworks

PROFESSIONAL EXPERIENCE

Google - **Software Engineer Intern** | *Sunnyvale, California* May 2025 - Aug 2025
- Optimizing resource usage for Google's largest low latency, distributed key-value store with over 350M QPS
- Designed and developed **distributed data pipelines**, ingesting **XXX million datapoints** using C++ & MapReduce
- Collaborated across teams to build **scalable solution to detect robustly and accurately detect stale data**
- Developed data transformation pipelines, workflows, and dashboard using SQL

Google - **Software Engineer Intern** | *Seattle, Washington* May 2024 - August 2024
- Deployed and **integrated ML models** to infer security labels using C++ & RPC
- **Finetuned Natural Language Processing classification models** (BERT/LLMs) using Python, Tensorflow/Keras, achieving >95% accuracy, enhancing protection of sensitive data
- Performed **exploratory data analysis (EDA)** across ~20 natural language parameters, evaluating cross-correlation and distribution of features using Python
- Built **data pipeline aggregating 70M+ data points** across 20 parameters from Google-wide systems using C++

Google - Software Engineer Intern | *Seattle, Washington* May 2023 - August 2023
- Integrated A/B experimentation into microservices with Golang, gRPC, enabling ~300 SREs to safely test deployments
- Collaborated with senior engineers to evaluate service impacts,**ensuring seamless deployments**
- Developed robust functional and unit tests to validate microservice interactions using Golang, **improving system reliability** and **reducing potential errors for 100s of engineers**

PROJECT EXPERIENCE

Liquid Bipropellent Rocket Engine (whitepaper) Feb. 2025 - Present
- Contributed to electronics/avionics, including **sensor integration**, ignition switch, and GUI using C++, Python, ESP32
- Designed and **CAD-modeled coaxial shear injector and combustion chamber**, including orifice sizing & flow testing
- Developed **pressure-fed propellent system**, including valve design, check and relief valve placement, flow velocity and pressure drop simulation using P&ID & Python
- Led key propulsion decisions, including propellent choice, engine sizing, test stand design, procedure writing, and post-fire analysis across **six hot-fire campaigns**

Nova - Autonomous Driving Researcher, Software Engineer | *Dallas, Texas* Jan. 2023 - Jan. 2024
- Developed and tested **vehicle controllers** with path planning algorithms (A*, graph-based) using Python, ROS, Docker
- Improved uniformity of PID Electric Assisted Power Steering (EPAS) interface, map management, and cost summation algorithms using C++, Python, ROS, and Docker
- Engineered launch infrastructure UI interface and backend launch API using Typescript/Javascript, Svelte, HTML/CSS, Node.JS, Python, ROS, and Docker, **simplifying dev workflow for team of ~20 engineers**

NL Degree Planner - **Product Builder** | *Dallas, Texas* Oct. 2022 - Oct. 2023
- Spearheaded technical/product growth: **scaled product from 0 to 500 active users and >1800 planned semesters**
- **Led cross-functional team of 8 engineers, designers, and product builders**, conducted code reviews, performed market research, and worked in tandem with designers using Jira, Figma, Airtable, and Notion
- **Founding engineer**: implemented drag'n drop, degree validation, fuzzy searching, render optimizations using Typescript/Javascript, HTML/CSS, Next.js, React.js, Node.js, Prisma.js, Postgres, SQL, tRPC, Python, Flask, Docker

ADDITIONAL INFORMATION

Languages: English, Chinese (intermediate)
Work Eligibility: US Citizen, Eligible to work in the US for internships and full-time with no restrictions