

Albert Huang

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EDUCATION

University of Virginia

Expected: May 2026

M.S. in Computer Science, B.S. in Computer Science, Minor in Data Science

GPA: 3.97, Dean's List

- Research Assistant, Prof. Aidong Zhang - IdeaBench: Benchmarking LLMs for Research Idea Generation
- Teaching Assistant for Data Science Systems (DS 2002)
- Courses: Operating Systems, Database Systems, Compilers, Programming Languages, Machine Learning

EXPERIENCE

Software Developer Intern

June 2025 – August 2025

Cisco

- Trained a semi-supervised model for a hybrid multimodal solution that determined customer query intent with 82% accuracy, streamlining service agent actions and improving case closures
- Developed 3 LLM tooling solutions and an exposing API that consolidated case management articles into a knowledge base which was then used to agentically close customer cases
- Migrated 3000+ articles from vector format to graph format to enable a GraphRAG approach, improving question answering

Winter Software Developer Fellow - Finalist

December 2024 – January 2025

Palantir

- Delivered Pocket Reader, a minimalistic content platform that served users 1000+ news articles scraped from API listings, queryable by desired topics and reading lengths with <1s of latency
- 1 of 4 finalists out of 500 developers to be selected to present their project to Palantir engineers
- Utilized Palantir Foundry to create data pipeline for ingestion, improving efficiency by 47% for entity extraction and knowledge graph construction, allowing users to find related articles along with translating/transcribing articles

Software Engineer Intern

June 2024 – August 2024

Capital One

- Formulated an AWS Batch process analyzing and evaluating 1000+ risky open-source packages daily to secure project development
- Expanded tool to scan packages in PyPi, doubling processed packages and ensuring Python code safety
- Spearheaded unit tests by driving code coverage up to 96% and onboarded testing frameworks to pass Testing Maturity Model Level 4 requirements

Software Engineer Intern

May 2023 – August 2023

WEX, Inc.

- Programmatically labeled 1,000,000+ entry dataset, achieving 64% accuracy with single labels and 82% accuracy with multi-labels over 40 classes using Snorkel AI
- Built new transcription pipelines with silence detection to agentically navigate a payment call with 10+ decisions

PROJECTS

GPTracker | *React.js, Typescript, Supabase*

- Developed a Chrome extension that tracks ChatGPT usage with 99.5% data consistency through local-remote synchronization checks, featuring interactive graphs and real-time sync across devices
- Built a data persistence system using buffered writes and batch synchronization that reduced database operations by 75% while maintaining data integrity through server-side validation and row-level security

LLVM Compiler | *C++, LLVM, ANTLR*

- Expanded TIP compiler with 20+ new types (booleans/arrays), operations (arithmetic/relational), and functionalities (statements/looping) through parsing, semantic analysis, code generation, and optimization passes
- Designed unit and system tests for 99% code coverage over the compiler and added optimization passes that resulted in 30x speedups and storage optimization in certain programs

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL, R, OCaml, Prolog, Golang

Frameworks/Libraries: pandas, NumPy, Matplotlib, Flask, scikit-learn, Tailwind, React, Snorkel, OpenAI, PyTorch

Tools: Github, AWS, Docker, Postman, Snowflake, PostgreSQL, Jira, Weaviate, Neo4js