

Christian Hirshey

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EDUCATION

The University of Alabama

Expected Graduation May 2027

Accelerated Master of Science in Computer Science | **GPA: 4.0**

Tuscaloosa, AL

Bachelor of Science in Computer Science, Minor in Mathematics | Activities: Speaker and Resume Reviewer at UA ACM

Relevant Coursework: UX/UI Design, Computer Vision, Artificial Intelligence, Full-Stack Development, Data Structures and Algorithms, Databases, Operating Systems, Object-Oriented Programming (OOP), Software Engineering

EXPERIENCE

Software Engineer Intern

May 2026 – Aug 2026

Arity (Allstate Subsidiary)

Remote

- Spearheaded the complete refactor of a Java/Flink microservice handling **1.7 billion miles/140M+ trips** daily, eliminating external dependencies to cut codebase size by 60%, lower CPU usage by 30%, and boost speed by 59%
- **Won Arity AI Hackathon** with a scheduled Python ADK Agent on GCP to flag BigQuery data quality issues
- Deployed Hackathon agent into production to automate anomaly detection, saving 10+ developer hours/incident

Software Engineer Intern

May 2025 – Aug 2025

Regions Bank

Birmingham, AL

- Developed React lockbox retrieval app, streamlining access for **8,000+ clients** and saving **1,000+ hours** annually
- Designed and deployed 3 RESTful API endpoints for a C#/ASP.NET MVC backend, leveraging Entity Framework Core and Aspose.PDF to automate PDF report generation and reduce annual costs by **\$20,000**
- **Won Regions AWS Hackathon** using AWS Lambda, ECS/Docker, S3, DynamoDB, Bedrock, and Python

Software Engineer

Aug 2024 – May 2026

The University of Alabama

Tuscaloosa, AL

- Engineered a full-stack web app with Django to aggregate and visualize ionospheric RF data from 180+ stations
- Designed interactive Analysis tab using Mapbox API, cutting navigation time across observation sets by **95%**
- Built REST API endpoints using Python/Django REST Framework to streamline bulk observation data retrieval
- Presented first-author research on the Personal Space Weather Network System at the 2026 HamSCI Workshop

Software Engineer Intern

Jan 2025 – Mar 2025

Omniscia AI

Remote

- Constructed a Node.js pipeline for phishing detection across 1000+ domains daily, leveraging Tesseract.js for OCR

PROJECTS

Short-Form Content Generator (EmoryHacks Winner) | Python, FastAPI, React, TypeScript, PostgreSQL, Gemini API, S3

- **Won Best AI (1st of 20 teams)** at EmoryHacks for a short-form content generation React web app
- Architected a Python/FastAPI pipeline that ingests mixed media and produces synchronized educational videos, applying Gemini for dialogue generation, ElevenLabs for voice synthesis, and FFmpeg for automated assembly

Real-Time Computer Vision ASL Game (UGAHacks XI Winner) | MediaPipe, scikit-learn, OpenCV, Pygame

- **Won Hack for Good Track (1st of 74 teams)** for an RPG that gamifies American Sign Language (ASL) education
- Implemented real-time MediaPipe/scikit-learn recognition pipeline, utilizing a Random Forest classifier to detect custom gestures with high accuracy while allowing new sign integration in under 2 minutes

HIPAA-Compliant Health Platform (UGAHacks X Winner) | Python, FastAPI, Next.js, TypeScript, Auth0, Pinata

- **Won Best AI (1st of 39 teams)** for AI-driven Next.js health monitoring platform with secure data storage
- Engineered a distributed, immutable database with relational models that supports data updates on Pinata (IPFS)
- Created custom Python SDK with FastAPI to power an internal query engine for CRUD operations on the database

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C#, Go, HTML, CSS

Frameworks: FastAPI, Django, .NET Core, Node.js, React, Next.js, TensorFlow, PyTorch, LangChain, Tailwind, Pytest

Tools: GCP, AWS, Azure, Git, Bitbucket, Linux/Unix, Docker, Kafka, PostgreSQL, MySQL, MongoDB, Supabase, Jira

Concepts: Backend, Fullstack, Data Engineering, Microservices, Serverless Architecture, Agile, Scrum, CI/CD