Mihir Kolakaluri

mihirkolakaluri@gmail.com | linkedin.com/in/mihir-kolakaluri | github.com/MihirKolakaluri | mihirkolakaluri.com

EDUCATION

University of Massachusetts Amherst — **Amherst, MA**
B.S. in Computer Science | GPA: 3.85 | Dean's List (Fall 2025) — Expected Spring 2029

Relevant Coursework| Object-Oriented Programming (CICS 160), Foundations of Programming (CICS 110), Multivariable Calculus (MATH 233), Data Structures (CICS 210, in progress)

WORK EXPERIENCE

Growth Associate (Intern) — **May 2026 – Aug 2026**
CogniSwitch.ai — Hyderabad, India

- Automated the outreach workflow with a Claude Code-built AppleScript integration that auto-populated and opened formatted email drafts, replacing manual copy-paste for every send
- Designed a four-agent Claude pipeline that turns podcast transcripts into briefs, cheat sheets and reference notes

Subcommittee Member, Student Career Academic Development — **Sep 2025 – Apr 2026**
Manning Undergraduate Student Impact Committee, CICS — UMass Amherst, Amherst, MA

- Worked with cross-functional student groups to plan and run a CICS tech conference for the college, held April 2026
- Brought in the Dean, CICS Advisory Board members and a panel from Google, NVIDIA, Amazon and MathWorks

Research Intern — **May 2023 – Jul 2023**
CSIR-National Physical Laboratory (NPL) — New Delhi, India

- Conducted precision optics experiments (Michelson interferometer, laser diffraction, Young's double-slit) under the guidance of a PhD researcher
- Received a Certificate of Appreciation from the Director

PROJECTS

PayPester – Invoice Follow-up App| Python, Flask, Postgres, Stripe Connect — **Sep 2026 – Present**

- Built and launched a web app for freelancers that watches their Stripe invoices and drafts escalating payment reminders, sent only after the user approves each one from an emailed link
- Runs in production on Render with a health check that gates every deploy, alerts that still fire during a database outage and a 350+ test suite
- Connects each user's Stripe account through Stripe Connect OAuth with per-user data isolation, a lock so two runs never act on the same invoice and a spend cap on AI drafting

VoxFlow – macOS Voice Dictation App| Swift, Groq API, Apple Speech — **Jul 2026 – Present**

- Built a free macOS dictation app, a Wispr Flow replacement, that types cleaned-up speech into any app
- Designed a failover chain with Groq cloud transcription and an on-device Apple Speech fallback so dictation keeps working when the network or an API fails
- Transcribes audio in chunks while recording, delivering text 0.25–1.7 seconds after the hotkey is released

Stock-Research Pipeline| Python, Alpaca API — **Jul 2026 – Present**

- Built a systematic strategy-research pipeline that walk-forward backtests each strategy against a benchmark Sharpe ratio and a held-out validation window before allowing live deployment
- Runs a live strategy on a real paper-trading brokerage account, fully automated via scheduled jobs, with no LLM in the live-execution loop

Atlas – Interactive Knowledge Graph Research Partner| Next.js, FastAPI, Gemini — **Aug 2026**

- Built an AI research assistant with a teammate that turns uploaded or arXiv papers into section-by-section explanations, paper-grounded Q&A and an interactive knowledge graph of concepts, methods and claims

FPL Advisor| Python, ILP Optimization — **Aug 2026 – Present**

- Built a weekly Fantasy Premier League squad recommender combining the official FPL API, deterministic projections and an ILP optimizer
- Runs on a daily scheduled job with a 133-test passing suite validating projections and squad-selection logic

TECHNICAL SKILLS

Languages| Python
Developer Tools| Git, GitHub, Visual Studio Code
AI & LLMs| Large language models, generative AI, multi-agent system design, Claude Code