Ignas Panavas

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EDUCATION

University of Georgia — Athens, GA
BS in Computer Science, BBA in Finance, Certificate in Data Science, GPA: 3.82/4.00   *August 2023 – May 2027*

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, HTML/CSS, SQL, C++, Swift, Bash, GoLang
Frameworks & Libraries: Spring Boot, Node.js, Express.js, Flask, React, Tailwind CSS, Scikit-learn, Pandas, NumPy
Databases & Storage: PostgreSQL, Redis, MongoDB, MySQL, AWS S3
Developer Tools & Platforms: AWS, Docker, Kubernetes, Terraform, GitHub Actions, CI/CD, Git, Linux Shell

EXPERIENCE

Co-Founder & Chief Technical Officer   July 2025 – Present
Muscadine   *Athens, GA*
- Co-founded a crypto asset firm, owning the Muscadine Vault's product vision and full-stack development
- Built the Muscadine vault with Next.js, the platform for 12 clients managing over $12M in digital assets
- Engineered the vault's UI with 50+ reusable React components, achieving a 95+ Lighthouse performance score

Backend Systems Intern   June 2024 – August 2024
DeRISK.io   *Vilnius, Lithuania*
- Developed Python scrapers for financial sites, delivering 23 continuous data streams for a commodities dashboard
- Scripted a Python pipeline to process over 8,600 daily data points from a WebSocket into a PostgreSQL database
- Deployed Python and Selenium scrapers to extract over 100,000 data points from 5+ dynamic financial websites

AI Research Annotator   November 2023 – September 2024
DataAnnotation.tech (Surge AI)   *Remote*
- Advanced code-generative LLMs by authoring & ranking 1,000+ RLHF examples in Python, Java, & SQL
- Created specialized datasets to fine-tune LLM reasoning, instruction-following, and coding abilities
- Drove a 33% increase in code generation accuracy through rigorous QA and expert model feedback

PROJECTS

SpamShield | *React, AWS (Lambda, EC2, ECR), Vercel, Scikit-learn, Docker*
- Built a full-stack anti-spam app with a Scikit-learn model, blocking 230+ weekly spam messages for GroupMe
- Ensured 99%+ uptime and scalability using a Python/Flask backend deployed on AWS (EC2, Lambda)
- Automated robust deployments to AWS (ECR, Lambda) via a CI/CD pipeline using Docker and GitHub Actions

DataHive (Unified Engagement Analytics Platform) | *React, Node.js, PostgreSQL, JWT*
- Developed a full-stack analytics dashboard (React, Node.js) unifying 5 social platforms for 100+ beta users
- Engineered scalable backend with Redis caching, processing 26k+ daily data points, reducing latency by 60%
- Implemented secure OAuth 2.0/JWT authentication for 350+ linked accounts, ensuring 99.9% uptime

LEADERSHIP & ORGANIZATIONS

Machine Learning Software Engineer & AI Researcher   May 2025 – Present
AI at UGA   *Athens, GA*
- Constructed a Scikit-learn pipeline to process and analyze 330+ images, training models to estimate forest growth
- Pioneered an AI forest age mapping system for the City of Atlanta, using ML on aerial imagery for urban planning

Backend Focus Lead   August 2024 – Present
DevDogs - Large Scale Software Development Club   *Athens, GA*
- Directed a 55-member backend team building a new scheduling platform for over 40,000 university students
- Designed a Spring Boot microservice architecture, aggregating data from 7 sources into a central PostgreSQL DB