Adam Kunesh – Software Engineer

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Experience

Software Engineer

Fennel Markets (Seed Stage FinTech Startup)
Nov. 2021 – Present

- Primary owner of backend & infrastructure
  - Designed RESTful and GraphQL APIs
  - Maintained Notion documentation
  - Defined and optimized database schema
- Leader of mission-critical projects
  - Migrated REST endpoints to GraphQL
  - Architected ETL pipelines
  - Led NoSQL to RDBMS migration
- Employee #2: Scaled from $0 to $6M+ ARR
  - Profiled & optimized user-facing services
  - Identified and resolved bottlenecks in data pipelines
  - Mentored junior teammates & created dev tooling to increase velocity

Lecturer, Educator

Physics Dept., University of California at Davis
Sep. 2017 – Nov. 2021

- Organized courses of 300+ students
  - Handled logistics of course content, exam schedule, grading
  - Generated 8h+ of educational content
- Supervised dozens of Teaching Assistants
  - Aligned busy graduate students
  - Fostered environment of openness and constructive criticism

Graduate Researcher

Complexity Sciences Center at UC Davis
Sep. 2019 – Nov. 2021

- Simulated chaotic systems
  - Visualized complex datasets
  - Computed statistics of simulations
- Applied machine learning to predict chaotic behavior

Stack / Skills

Languages: Python, PostgreSQL, Bash, MATLAB, TypeScript, HTML/CSS, Flutter
Tools: AWS CDK, Terraform, GitHub Actions, Node.js, FastAPI, Pydantic, Strawberry GraphQL, Numpy, Pandas, PyTorch, Matplotlib
Cloud: Lambda, DynamoDB, S3, Aurora, CloudFormation, SQS, CodeBuild, Redshift, CodePipeline, MWAA, Datadog, SSM

Education

Master of Science, Physics

UC Davis | 2017-2021
Ray and Constance Chandler Fellow, Fulbright Semifinalist

Bachelor of Science, Applied Mathematics; Bachelor of Science, Physics; Music Minor

UNC Chapel Hill | 2013-2017
Half-Ride Merit Scholarship, Phi Beta Kappa, NSF REU Participant