Colin Graydon

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 simplifystudying.com

Self-motivated full-stack developer with finance and mathematics background seeking a technical role. Eager learner.

EDUCATION

- **Georgetown University** — Washington, DC
  B.S. in Mathematics, Minor in Computer Science, Minor in Economics — *Expected graduation May 2024*
  Courses: Statistical Learning, Data Science, Complex Analysis, Data Structures, Algorithms, Analysis II
  John Caroll Merit Scholarship recipient

SKILLS SUMMARY

- **Languages**: C++, TypeScript/JavaScript, Java, Python, R, SQL
- **Tools**: Docker, Kubernetes, AWS, Node.JS, React, React Native, GraphQL, Postgres, Jest, GIT, JUnit, Prometheus, Grafana
- **Certifications**: Certified Kubernetes Administrator (CKA), AWS Solutions Architect Associate (SAA), Prometheus Certified Associate (PCA), AWS Cloud Practitioner (CLP), FINRA Series 7, Series 66, SIE

EXPERIENCE

- **Merrill Lynch** — Hopewell, NJ
  Senior Investment Specialist — *2020 - 2022*
  - Serviced ultra high net worth clients by solving unique, complex issues with the goal of retaining their business after tier 3 associates had failed
  - Provided full brokerage support for self-directed clients with a focus on deepening the client/firm relationship
  - Placed client trades and orders for securities, including options and other derivative products
  - Brought in over 50 million in new assets
  - Wrote various Python scripts which webscraped security price fluctuation or other market events and sent push notifications

- **SRI International** — Princeton, NJ
  Engineering Intern — *Junior year*
  - Helped write proprietary machine learning software in C++ for image recognition and distance calculations. Retrained the model to adjust computation/accuracy ratio
  - Developed in-house one-hot encoding methods
  - Created a parser in Java to parse logs in order to improve testing efficiency. Implemented unit tests using JUnit
  - Wrote Bash scripts in order to improve workflow of project

PROJECTS

- **simplifystudying.com**: Developed a multi-tiered app using microservices and server-side rendering, written in Typescript, as a tool for studying. The backend API uses Node.JS, Apollo, TypeORM and frontend uses GraphQL, React, Next.JS, and ChakraUI. User data is stored in Postgres with a Redis-based cookie authentication flow. Deployed to an EC2 Ubuntu cluster using Kubernetes. Used Jest for unit testing and NGINX for a reverse proxy
- **Ether Net**: Working in an agile team, developed a site for an address affiliation-network visualizer, generated from a connected wallet. Wrote the backend in Node.JS and implemented a GraphQL graph using Apollo. Implemented a custom authentication flow using JWT in conjuction with blockchain wallet authentication. Developed a CI/CD pipeline using Github Actions, wrote portions of the frontend using React and Material UI, and deployed to an EC2 instance on AWS.
- **Swole**: Developing a React Native mobile app for athletes, using TypeScript, Node.JS, and microservices. Implemented a JWT based login flow and currently adding OAuth 2.0 as well. Created a CI/CD pipeline, using Jest to implement unit and smoke testing, aiming for 100% coverage.
- **Marcen**: Developed a lightweight, multi-layered artificial neural network in Python, using no external libraries or frameworks, which predicts target data with 97% success rate. Tested and trained on OCR data
- **DingerAlert**: Created an audio fingerprinting application using Java which hashes a song and allows lookup from a separate audio sample.

OTHER EXPERIENCE

- Served as a full-time caregiver for an immediate family member with blindness and ALS from 2018 - 2020
- Managed personal care, transportation, medication, assisted with legal matters and estate planning