Kaizen Conroy

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Experience

Incoming Software Development Engineer – Amazon Web Services

8/21, Seattle, WA (**TypeScript, Git, AWS Certified Cloud Practitioner**)
- Returning to the Cloud Development Kit team to continue my work on the CDK Construct Library.

Software Development Engineer Intern – Amazon Web Services

6/20 – 8/20, Seattle, WA (**TypeScript, Git, AWS Certified Cloud Practitioner**)
- Contributed features in Lambda, CloudWatch, Autoscaling, etc. for open-source, infrastructure-as-code Cloud Development Kit.
- Fully owned all phases of the software development lifecycle for new CDK Construct modelling AWS CloudWatch Synthetics, launching it in Developer Preview a month ahead of schedule.
- Built a reference app using the CDK framework for AWS Synthetics demonstrating its integration with AWS CodePipeline for enhanced CI/CD efforts. Used AWS Lambda, ApiGateway, CodePipeline, CloudWatch, and SNS.

Senior Computer Science Instructor II – Juni Learning

1/19 – Present, Remote (**Java**, **Python**)
- Cultivating student understanding in data structures, AP Computer Science, and USA Computing Olympiad (Bronze & Silver).
- Developing curriculum for new Python Algorithms course, conducting diagnostic trial lessons, screening instructor applicants.

Computer Science Teaching Assistant – Williams College

2/19 – 5/19, Williamstown, MA (**Java, Git**)
- Led T.A. sessions for *Data Structures in Java* course reinforcing topics like searching/sorting algorithms, hash tables, and graphs.

Projects

CryptoNight Code Words Game: www.cryptonight.codes – Personal

1/21 – Present (**JavaScript, Bootstrap, Node.js, Express.js, Socket.io, MongoDB, AWS, nginx**)
- Built online multiplayer word game similar to Codenames where users team up to uncover bombs and avoid the 'cryptonight' word.
- Features include create/join room, single player lobby, live chat with stats by command, full gameplay, separate superhero/sidekick interface, suite of customizable settings and team selection, per game statistics, all-time leaderboard, and much more.
- Deployed production server on AWS EC2 with Elastic IP, AWS Route 53, and nginx to route both http and https traffic to the server.

Ticket to Ride Board Builder – Personal

3/20 – 5/20 (**Swift**, **XCode**)
- Built iOS app with MVC architecture that lets users build custom railroad network of cities and tracks. Developed underlying graph structure from scratch and Dijkstra's algorithm to find shortest path between cities.

Microservice Cloud Native Application – Coursework

8/19 – 12/19 (**Python**, **Flask**, **MySQL**, **AWS**)
- Received A+ grade from Columbia Professor Donald Ferguson. Built a microservice-backed website in group of 4, deployed with AWS Elastic Beanstalk and AWS Lambda. Responsible for E-tag feature on MySQL database puts.

Education

Williams College – B.A., Computer Science

9/17 – 5/21, Williamstown, MA (GPA: 3.58, Computer Science GPA: 3.67, *Dean's List*)
- CS: Programming Languages (**Lisp, Scala, C++, Java, Rust**), Software Methods (**Swift**), Applied Algors (**C**), Theory of Computation, Algo Game Theory, Algorithm Design/Analysis, Data Structures (**Java**).
- Math: Graph Theory, Linear Algebra, Discrete Math, Multivariable Calculus, Game Theory, Econometrics (**Stata**, **R**).

Columbia University – Visiting Student in Computer Science

9/19 – 12/19, New York, NY (GPA: 3.64)
- Microservices (**Python**), Advanced Programming (**C, C++**), Artificial Intelligence (**Python**), Databases (**Python**, **SQL**).

Shanghai American School

9/13 – 5/17, Shanghai, China (GPA: 3.92, *Summa Cum Laude*)
- Averaged 4.82 score on 11 AP tests, 2-year captain & MVP of Varsity Baseball.

Leadership & Interests

Williams Ultimate Frisbee Organization – Captain
- Earned 2nd-team All-Region honors '19 and was Freshman-of-the-year '18.

Additional Interests
- Sabermetrics, Westworld, AI, Ticket to Ride (board game), Poker, Chess, The Beach Boys.