

# Kaizen Conroy

[github.com/kaizen3031593](https://github.com/kaizen3031593) / [kaizen3031593.github.io](https://kaizen3031593.github.io) / New York, NY / 413-652-9906 / zen.conroy@gmail.com

## Experience

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

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.

Williams Students Online – Frontend Team

1/20 – Present (**React, JavaScript**)

- Guiding members through proper development practices and developing new features on student-maintained school [website](#).

Heads Up Poker AI – Personal

7/19 – 8/19 (**Python**)

- Built object-oriented [app](#) that plays poker against the user. Cards are displayed in the console and AI makes bets based on poker math.

## Education

Williams College – B.A., Computer Science

9/17 – 5/21, Williamstown, MA (GPA: 3.52, Computer Science GPA: 3.67, *Dean's List*)

- CS: Programming Languages (**Lisp, Scala, C++, Java**), Software Methods (**Swift**), Applied Algors (**C**), Algo Game Theory, Algorithm Design/Analysis, Data Structures (**Java**).
- Math: 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 2<sup>nd</sup>-team All-Region honors '19 and was Freshman-of-the-year '18.

English Teacher – Volunteer

- Taught English to disadvantaged 5<sup>th</sup> graders in rural Taiwan through selective government program.

Additional Interests

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