

Aaron Cheng

[Online Resume](#) • [Teaching Profile and Reviews](#) • aacheng17@gmail.com • [LinkedIn](#)

Experience

SDE at Amazon Web Services – Seattle, WA

2021 - present

- Co-own the Remove High-Availability workflow for RDS SQL Server, focusing on improvements that increase robustness of rollback procedures
- Own SQL Server high-availability failover metrics, monitoring and diagnosing production code issues
- Designed and implemented RDS SQL Server system database object synchronization pagination, enabling the object sync feature to scale indefinitely with customer demand
- Designed and implemented the cluster service recovery action, which allowed database automation to recover from common customer problems without human intervention

Founder and Tutor of [A* Tutoring](#)

2013 - present

- Teach computer science, music, math, physics, and writing to a diverse range of students, from kindergarteners to tech industry workers
- Manage communications, advertising, scheduling, and payments between tutors and students
- Strongly focus on our “drawing board” approach to education, where the teacher first understands and empathizes with the student’s point of view and identifies their intuitions and any weak foundations before designing a learning plan
- Emphasize our value of building intuition, where the teacher’s final goal is not only to help the student pass a class or prepare skills for a job, but also to help provide a deeper intuition and mental ease of their subject

Freelance Musician

2017 - present

- Perform classical, jazz, and pop music at local events and weddings with other musicians

Software Intern at iCIMS – Holmdel, NJ

2020

- Built and deployed a full stack web application featuring a server that scrapes ratings data from movie websites and aggregates the data into a MySQL database, plus a ReactJS front end that displays the data with search, filtering, and pagination features

Math Tutor at Mathnasium – Marlboro, NJ

2019 - 2021

- Taught small groups of K-12 math students

Skills

Experienced – Java, C#, Python, Bash / Shell, Git, SQL, SQL Server

Proficient – C, Go, NodeJS, ReactJS, HTML, CSS, Flutter, Dart

Personal Projects

[Online Resume](#) – personal website with full portfolio

[Game Development](#) – ongoing game development project

[Piano Lights](#) – stylish 3D piano midi file visualizer

[Ratings Site](#) – full stack web app that scrapes and aggregates movie data

Education

Rutgers University – New Brunswick, NJ

2021

- B.S. in Computer Science
- Minor in Philosophy, Minor in Music, Certificate in Recording Arts