

Owen Gong

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Education

University of California, Berkeley

Graduation: May 2022

- **B.A. Computer Science, B.A. Applied Mathematics** | GPA: 3.8/4.0
- 3x Cal Alumni Association Leadership Award Recipient (awarded to <2.5% of Berkeley students per year)
- Upsilon Pi Epsilon (UPE) CS Honors Society Member (invited to top 1/3 of UC Berkeley CS majors)
- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, Machine Learning, Artificial Intelligence, Computer Architecture, Cybersecurity, Discrete Math and Probability, Linear Algebra, Multivariable Calculus, Analysis

Professional Experience

Amazon

Seattle, WA

Software Development Engineering Intern

May 2021 – August 2021

- Built data pipeline and new proof of concept feature that generates dynamic title suggestions for Prime Video customers
- Designed from scratch packages to aggregate catalog data and transform into a suitable schema in Elasticsearch ([Spark](#))
- Assisted senior data scientist in algorithm to recommend titles based on metadata, theme, and awards of a given title

Software Development Engineering Intern

May 2020 – August 2020

- Designed and completed package to enrich Prime Video's catalog with 5x more data by integrating IMDb bulk datasets
- Aggregated and stored information on 7 million media titles by creating an AWS Glue script and using DynamoDB tables, allowing clients to view all titles' metadata and connections between titles in one place for the first time ([Python](#))
- Created AWS Lambda function to update titles daily and publish notifications/metrics on modifications and errors ([Java](#))

UC Berkeley Department of EECS

Berkeley, CA

Undergraduate Student Instructor

January 2019 – Present

- Teaching weekly sections of 30 students topics in the structure and interpretation of computer programs (CS61A), recursion, and data structures, in addition to developing official exam walkthrough videos and concise cheat sheets
- Received the "Outstanding Academic Intern Award" in Summer 2019, awarded to top 4 of over 200 lab assistants
- Spearheaded development of newly released CS61A project "Typing Test" as a Coding/Debugging Specialist ([Python](#))
- Created follow-along Python files (with tests) and conceptual slides for review sessions open to around 2000 students

AddisCoder Computer Science Program (cancelled due to COVID-19)

Addis Ababa, Ethiopia

Teaching Assistant

August 2020

- Create course content and teach 4-week program introducing Ethiopian high schoolers to programming and algorithms

Leadership and Extracurriculars

- **Concertmaster and Music Arranger (*The Intermission Orchestra at Berkeley*):** Arranged several full orchestra scores for end-of-semester concerts and conducted pieces arranged by myself; lead orchestra in violin solos and tuning
- **Technical Consultant (*C&C Studios*):** Assisted development of the official website (cncstudios.org) showcasing digital art in photography and web development; leading expansion of organization to videography and performing arts

Projects

- **Voice-Activated Smart Mirror:** Constructed from scratch a Raspberry Pi-powered mirror with desktop monitor enclosed to display modules such as weather, news, and NFL scores, complete with Amazon Alexa voice integration ([JavaScript](#))
- **Build My World:** Created a 2D game world (back-end from scratch) that generates maps based on an input seed ([Java](#))
- **Neural Networks:** Implemented Convolutional and Pooling Layer Algorithms for classifying CIFAR-10 dataset ([Python](#))

Skills and Interests

- **Languages and Tools:** Proficient in Java, Python (+libraries), Spark, AWS; Familiar with C, JavaScript, Scala, Kotlin, Git
- **Hobbies:** Making song covers on electric violin (played for Spotify published album!), blogging, basketball, hiking