Owen Gong

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Education

University of California, Berkeley   Graduation: May 2022

- **B.A. in Computer Science and Applied Mathematics** | GPA: 3.82/4.0
- 2x 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, Efficient Algorithms, Artificial Intelligence, Cybersecurity, Machine Structures, Data Science, Discrete Math and Probability, Structure of Computer Programs, Linear Algebra, Multivariable Calculus

Professional Experience

Amazon   Seattle, WA

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 in DynamoDB tables by creating an AWS Glue script, allowing clients to view all titles' metadata as well as 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)

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

Forkaia   Irvine, CA

Software Development and Data Science Intern   *June 2019 – August 2019*

- Developed web scraping template to transform targeted website data into CSV file with a single function call (Python)
- Released in-depth introduction and tutorial on the script to over 100 data science teams in Forkaia's Idea Lab
- Led wireframing and mockup design processes for 2 project teams, *RoundZ Ventures* and *PLAID* (50 members each)

UC Berkeley Department of EECS   Berkeley, CA

Senior Mentor and Course Staff Tutor   *January 2019 – Present*

- 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)
- Developed official exam video walkthroughs, comprehensive cheat sheets, and homemade tutorials for remote sections
- Created follow-along Python files (with tests) and conceptual slides for review sessions open to around 2000 students

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)
- **Mandelbrot Fractal:** Generated a zoomable visualization of the famous Mandelbrot set with infinite iterations (C)

Skills and Interests

- **Languages and Tools:** Java (Dagger, Lombok), Python (PySpark, NumPy), AWS suite, C, JavaScript, Go, Git, Scrum
- **Hobbies:** Making song covers on electric violin (played for Spotify published album!), blogging, basketball, hiking