Connor Chung

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EDUCATION

University of California, Los Angeles — Los Angeles, CA

Bachelor of Arts in Computer Science and Linguistics— GPA: 4.0 — *Expected Graduation: June 2027*

- **Relevant Coursework** Computer Architecture, Data Structures and Algorithms, Linear Algebra, Discrete Math, Machine Learning, Multivariable Calculus, Statistics, Database Management, Syntax, Applied Phonology
- **Activities:** ACM Cloud @ UCLA (Operations and Marketing Officer), Basketball, Modeling

EXPERIENCE

Kickback — Nov. 2024 – Feb. 2025

Computer Science Intern/Data Analytics Intern — *Los Angeles, CA*

- Implemented website leveraging Next.js SEO/ISR to **improve load times by 18%** and **user reach by 10%**
- Developed end-to-end data pipeline on social media analytics utilizing SQL, Python and Instagram Graph API
- Collaborated with team of 5 members to boost short-form social media (TikTok, Instagram) engagement **300%**

UCSD Outreach Program for Advancing Learning in STEM — May 2023 – Oct. 2023

Machine Learning Research Intern — *San Diego, CA*

- Optimized Cellpose's U-net Convolutional Neural Network (CNN) architecture to perform data analysis (cell identification/connectivity) following laser ablation (simulating TBI/Strokes); improved model accuracy by 22%
- Trained model with 300K astrocytes cells/18K TIF images, researchers spent **20 minutes** less on analysis/image
- Addressed latency concerns by switching from Dijkstra's algorithm to A-star search, improved efficiency by 15%
- Produced and presented 2 research abstracts (creating GUI and A-star cell pathfinding algorithm) at **BMES** (Biomedical Engineering Society) Conference in Seattle, Washington (awarded Honorable Mention for both)

Outlier — Jun. 2024 – Sep. 2024

AI Software Code Reviewer — *Remote*

- Fine-tuned **8 Large Language Models** (LLM) focusing on code generation, documentation, and analysis
- Reviewed **1k model responses** and over 2k questions, ensuring high quality and relevance of model responses

PROJECTS

OutfitSearchAI | *Python, Weaviate, Docker, ResNet50, PyTorch, Scikit-Learn* — Jan. 2025 – Present

- Leveraged Weaviate Vector Database and Resnet50 (PyTorch) to create an image search engine by separating images with vector index HNSW, accurately guessing similar outfits (assuming negligible noise) **86%** of the time
- Utilized Node/2 docker containers containing PyTorch neural networks, vectoring and storing **300 outfit images**
- Implemented K-means clustering in Scikit-learn, to sort and identify 6 unique "styles" from the sample data

Outfit Of The Day | *Google Cloud, Next.js, Vercel, Cron, Rest API, Next ISR* — Aug. 2024 – Dec. 2024

- Programmed Full Stack (Next.js/Firebase) Application, scaling to **20,000 daily views** and **1500 outfit photos**
- Used social media following (**11k Instagram followers/2.2 million monthly views**), growing views by **600%**
- Utilized Vercel's edge functions and Next.js ISR to improve home page and profile page load times by 45%
- Incorporated Firestore Queries from Google Cloud to create 20 unique "Groups" improving user retention by 60%
- Implemented Google OAuth 2.0 and over 25 Firebase Security Rules to prevent external security breaches
- Built spontaneous features, including "Outfit of the Day" with Rest API - increased app engagement by 50%

ITALKTOMYSELF | *Firebase, Next.js, Whisper LLM, Vercel, Tailwind CSS* — May 2023 – Sep. 2024

- Developed social media platform (hosted on Vercel), allowing users to record over **1000** unique audio entries
- Used Next.js SSR to improve SEO by 35% and Next.js ISR on images (outfit posts) to improve speed by 20%
- Implemented OpenAI Whisper LLM to transcribe recorded audio files into transcripts, achieving **95.1% accuracy**
- Employed Google OAuth 2.0 for increased security, boosting conversion rates from clicks to registration by 60%
- Stored more than 50 hours of audio, used React-Hook-Form to upload audio and streamline functionality

TECHNICAL SKILLS AND INTERESTS

Languages & OS: Java, Python, C++, JavaScript, Typescript, HTML/CSS, R, Windows, macOS, Linux
Tools & Frameworks: Git, Docker, Firebase, React.js, Next.js, SQL, Excel, NumPy, Google Cloud, Weaviate, Node
Interests: Guitar, Surfing, Content Creation (fashion/lifestyle), Aesthetic Cafes, Thrifting, Basketball, Late Night Runs