Ian Dong

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Education

University of California, Berkeley

Berkeley, CA

Computer Science & Data Science B.A. 3.98 GPA

Aug 2021 - May 2025

Relevant Coursework:

- Computer Programs, Data Structures, Machine Structures, Discrete Math & Prob Theory, Linear Algebra, Intro Data Science
- Computer Security, Operating Systems, Compilers, Internet Networks, Database Systems, Efficient Algorithms
- Intro to CV, Neural Nets, Intro to Graphics, Intro to AI, Intro to ML, Random Processes, Optim Models, Advanced DS

Work Experience

OpenAl

San Francisco, California

July 2025 - Present

Member of Technical Staff

Incoming Applied Engineer at OpenAI

Seattle, Washington

Machine Learning Engineer Intern

May 2024 – Aug 2024

- Developed an end-to-end machine learning pipeline using PySpark, AWS CDK, and SageMaker to detect anomalous sign-ins
- Integrated Random Cut Forest (RCF) and SHAP algorithms to enhance anomaly detection for time-series data
- Reduced on-call response time for engineers from over 24 hours to approximately 3 hours by automating detection

AmazonSoftware Development Engineer Intern

New York City, New York

May 2023 - Aug 2023

- Built data processing workflows using AWS Glue and Andes to summarize Close-Match relationship data across RME jobs.
- Created library to automatically extract S3 files, update Glue tables, and partition data for Andes, streamlining analysis
- Saved the internal team over 12 hours weekly by automating business assessments and statistical analysis

Teaching Experience

UC Berkeley Electrical Engineering & Computer Sciences (EECS)

Berkeley, CA

CS 168: Internet Protocols Undergraduate Teaching Assistant

Aug 2024 - Present

- Hosted weekly discussions to teach various topics on internet protocols
- Created rubrics, graded assignments, and hosted office hours for course-related questions

College of Computing, Data Science, and Society (CDSS)

DATA 100: Principles of Data Science Course Staff

Berkeley, CA

Aug 2023 - May 2024

Created rubrics, graded assignments, and hosted office hours for course-related questions

UC Berkeley Electrical Engineering & Computer Sciences (EECS)

Berkeley, CA

CS 70: Discrete Math and Probability Theory Course Staff

June 2022 - May 2023

• Created rubrics, graded assignments, and hosted office hours for course-related questions

Projects

Atlas - Open World Generation

Mar 2024 - May 2024

- Developed an OpenGL procedural terrain generator with Perlin noise and instancing for optimized rendering
- Implemented dynamic shading, fog models, and textured terrain with skybox and environment mapping for realistic visuals

CV for Nutrition

Jan 2023 - May 2023

- Utilized Keras and InceptionV3 to build a CNN model to identify foods from photos and produce nutritional facts
- Worked with transfer learning to fine-tune the model to increase classification accuracy

WordleWise

Mar 2023

- Developed a Python model to optimize word guesses for Wordle using entropy and mutual information principles
- Based model on uncertainty to determine most informative guesses to maximize word-guessing efficiency

Skills

Technical Skills: Agile Software Engineering, Systems Design, Object Oriented Programming, Full Stack (Frontend, Backend) **Machine Learning:** Deep Learning, Computer Vision, Anomaly Detection, NLP, Statistical Analysis, Predictive Modeling

Languages: Java, Python, C++, C, R, SQL, HTML, CSS, JavaScript, Typescript

Libraries/Frameworks: PyTorch, TensorFlow, PySpark, Keras, Node.js, React, Express, MongoDB **AWS Cloud Computing:** CDK, EC2, Lambda, S3, Glue, Athena, Redshift, SageMaker, CloudWatch

Awards

USACO Gold Division Jan 2021