John Dang

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EDUCATION

- **University of California, Los Angeles** — Los Angeles, CA

  Bachelor of Science in Computer Science; GPA: 3.8; Achievement Scholarship Recipient — *Sep. 2018 – Jun. 2022*

  - **Relevant Coursework**: Algorithms and Complexity, Data Strucrtures and Algorithms, Proof-based Probability Theory, Linear Algerbra, Multivariate Calculus, Software Construction, Research, Statistical Reasoning
  - **Student Organizations**: Association for Computing Machinery (AI Officer), DataRes (Project Manager)

EXPERIENCE

- **Center for Vision Cognition Learning and Autonomy (VCLA)** — UCLA CS and Stats Department

  Research Intern — *May 2019 - Present*

  - Researching reinforcement learning and casual transfer learning including applications in robotics
  - Developing VRGym, a platform for physical and interactive AI/robotics research. VRGym enables machine learning research in physically and visually realistic 3D environments with Unreal Engine.

- **Sike AI (sikeinsights.com)** — Los Angeles, CA

  Deep Learning Engineer — *Oct 2018 - Present*

  - Developed core deep learning models for five-factor OCEAN personality trait extraction from text, audio, and video. Model accurately predicts personality scores within 0.015 on average given raw text alone (each personality trait is a real number between 0 and 1.0).
  - Built data infrastructure. Developed data ingestion and procressing pipeline on AWS EC2, S3, and RDS. Ran distibuted deep learning model training across multiple GPUs with Tensorflow.
  - Deployed Tensorflow deep learning model on Flask server for use with all Sike products on AWS EBS. Deep learning model is used to provide companies insights to their employees, enabling managers to better onboard and work with new hires. Clients include Heal, Witsmo, Saffron and more.

- **Ozcan Research Group (org.ee.ucla.edu)** — UCLA ECE Department

  Machine Learning Researcher (Howard Hughes Medical Institute Project) — *Oct 2018 - Jun 2019*

  - Developed convolutional neural network for accurate and efficient protein particle analysis from blood sample images used for diagnosis of diseases such as meningitis through monitoring of particle coagulation.
  - Custom convolutional neural network showed a tenfold improvement in processing time compared to traditional methods, while maintaining performance and being run on a Raspberry Pi embedded device.
  - Research project showed promising results for quick, mobile disease diagnosis. Presented work at Howard Hughes Medical Institute Undergraduate Research Conference. Poster here: johndang.me/ozcan

- **Logos (logosnews.tech)** — Los Angeles, CA

  Software Engineering Intern — *Oct 2018 - Dec 2018*

  - Developed iOS app for a new crowd-sourced and personalized news platform in Swift.
  - Developed feature enabling users to highlight lines in articles for social interaction with other users.
  - Restructured Firebase database and rewrote NodeJS back-end data processing Google Cloud functions enabling faster app loading and performance.

SKILLS

- **Languages**: Python, C++, C, Java, Javascript, Bash, Octave, Matlab, Swift, HTML, CSS
- **Machine Learning / Data Science**: Tensorflow, Keras, Numpy, Pandas, Jupyter, SQL, Firebase
- **Amazon Web Services**: EC2, S3, RDS, Lambda, EBS
- **Other Technologies**: Git, Github, Unreal Engine, Docker, LaTeX, Google Cloud Platform, Microsoft Azure