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 (PI: Prof. Song-Chun Zhu)   *May 2019 - Present*
    - Researching reinforcement, transfer, and casual learning with applications in robotics. Working jointly at International Center for AI and Robot Autonomy (CARA).
    - Developing VRGym, a platform for physical and interactive AI/robotics research with Unreal Engine (C++, Python). VRGym enables varied, physically and visually realistic environments for RL agent training. Additionally, VRGym integrates with VR hardware for learning from human demonstration.

- **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 (Tensorflow, Python).
    - 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 Uber Eats, Heal, Witsmo, Saffron and more.

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

  Machine Learning Researcher (PI: Prof. Aydogan Ozcan, Howard Hughes Medical Institute Project)   *Oct 2018 - Jun 2019*
    - Developed deep learning system 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 custom imaging device powered by a Raspberry Pi (Tensorflow, Python). Enables democratization of quick, mobile disease diagnosis.
    - Presented work at Howard Hughes Medical Institute Undergraduate Research Conference. Poster, *Particle Analysis Using Machine Learning*, 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 (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 (Javascript).

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