Sumanth Gurram

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Education

University of California, Berkeley, BS in Electrical Engineering Computer Science   Aug 2019 – May 2023
- Technical GPA: 3.93/4.0
- Overall GPA: 3.82/4.0
- M.E.T. Dual Degree Program
- IEEE Eta Kappa Nu (top 25% of EECS)

Experience

Software Engineer, Zip – San Francisco, CA   June 2023 – Present
- Created new features for managing user transitions, Zip AI assistant, AI similar spend detection
- Optimized and revamped main dashboards, reducing search overhead by >12X on highest traffic areas
- Identified gaps in key bug areas and created backend debugging tooling, driving down eng cost by 7X
- Leading large-scale refactor of legacy backend logic on least-performant endpoints, removing n+1s, parallelizing/slimming large reads, modularizing with cleaner design and vastly increasing test coverage

Research Engineer Intern, Meta AI – Menlo Park, CA   July 2022 – Sept 2022
- Created eye-tracking and voice modules for real-time interactive image segmentation
- This was research for Segment Anything (SAM), 3rd most cited AI paper worldwide in 2023

Software Engineer Intern, Nuro – Mountain View, CA   April 2022 – July 2022
- Built cost tracking framework, led data migration to GCP and created synthetic traffic testing jobs
- This helped scale NuFS, Nuro's distributed file system, to store over >100 PB self-driving data

Machine Learning Intern, Apple – Cupertino, CA   May 2021 – Aug 2021
- Created and trained 3D object pose-estimation model with simulation data for robot vision
- Presented to Apple's VP of Hardware as a way to automate automated device testing/QA

Machine Learning Researcher – Berkeley, CA   June 2020 – June 2023
- Advised by Prof. John Canny for multi-modal self-supervised video understanding using transformers
- Advised by Prof. Ion Stoica (co-founder Databricks, Anyscale) for multi-cloud ML training infrastructure

Publications

LAVA: Language Audio Vision Alignment for Contrastive Video Pre-Training   May 2022
S. Gurram, A. Fang, D. Chan, J. Canny
2022 ICML Workshop

Projects

Arrow AI
- Developed a platform to evaluate prompts and unit test LLMs using natural language test suites
- Built for startup I co-founded in 2022 Soma Capital Fellowship; turned down further funding to resume college

Technologies

Languages: Python, Java, C++, C, Go, Typescript, Javascript, HTML/CSS, Solidity, RISC-V, Intel x86
Tools: PyTorch, TensorFlow, OpenAI API, ElasticSearch, GCP, AWS, Kubernetes, PostgreSQL, GraphQL, React.js, DataDog, Kibana, Unity, LaTeX