Last Updated on 4th August 2021

Sumanth Gurram

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EDUCATION

UC BERKELEY
BS in EECS
BS in Business
Expected May 2023
GPA: 3.82 / 4.00
M.E.T. Dual Degree Program
Eta Kappa Nu (EECS Honors Society)
EECS Honors Program
Blockchain at Berkeley

LINKS

Github: **sumanthgenz**
LinkedIn: **sumanth-gurram**

SKILLS

LANGUAGES

Python • Java • C • C++ •
JavaScript • HTML/CSS • SQL •
C# • RISC-V Assembly • Soliditiy

TOOLS

PyTorch • TensorFlow • Scikit-Learn •
NumPy •Matplotlib • OpenCV •
ffmpeg • Selenium • Flask •
React.js • Node.js • MongoDB •
GCP • Docker • OpenMP •
Unity • Arduino • LaTeX

COURSEWORK

CS 61A: Programs
CS 61B: Data Structures
CS 61C: Computer Architecture
CS 70: Discrete Math & Probability
CS 162: Operating Systems
CS 170: Algorithms & Intractability
CS 188: Artificial Intelligence
EECS 16A: Linear Algebra & Circuits
EECS 16B: Diff. Equations & Control
EECS 126: Random Processes
ECON 1: Microeconomics
UGBA 102A: Accounting
UGBA 103: Finance
MATH 53: Multivariable Calculus

AWARDS

M.E.T. Program (1.5% acceptance rate)
IEEE Eta Kappa Nu (top 25% of EECS)
Dean's Honors List (top 10% sem. GPA)

EXPERIENCE

APPLE | Software Engineer Intern, Robot Perception

May 2021 – Aug 2021 | Cupertino, CA

- Delivered 3D object pose-estimation module for test automation robots
- Built simulation data pipeline; trained vision models to 99% accuracy for <1 cm

SERVICENOW | Machine Learning Intern, ATG

May 2020 – Aug 2020 | Santa Clara, CA

- Developed production NLP models with 92% accuracy in intent classification
- Built data and model benchmarking infrastructure; presented to C-suite

MICROSOFT | Contract Software Engineer

Jan 2020 – May 2020 | Berkeley, CA

- Created a secure payment backend to scalably verify 1M+ transactions
- Delivered solution to Quisitive team as part of Blockchain at Berkeley contract

RESEARCH

BERKELEY AI RESEARCH | Undergraduate Researcher

May 2020 – Present | Berkeley, CA

- Advised by Prof. John Canny for video perception with vision, audio, language
- Developing self-supervised algorithms; distributed compute on large datasets

SANFORD BURNHAM PREBYS | Research Intern

July 2017 – July 2019 | San Diego, CA

- Built electromagnetic IoT devices to research EMFs for cancer therapy
- Performed biochemical data analysis, achieving 98% cancer cell-death in vitro

PROJECTS

MAGMA 2021 - Present

- Automatically build image, audio, video and text datasets using web search
- Python / HTML/CSS / Flask / React / Selenium / Multiprocessing

LAVA 2020 - Present

- Large-scale language, audio and video perception across 1M+ YouTube videos
- PyTorch / Unsupervised Learning / Transformers / GPUs / ffmpeg / LaTeX

NUMC 2020

- NumPy but for C with up to 1600X faster matrix arithmetic than naive
- C / OpenMP / Intel SIMD / Python / NumPy / Parallel Computing

JARVIS 2020

- Neural voice assistant to answers questions on FAQ pages in <5 seconds
- Python / Java / PyTorch / TensorFlow / Pandas / NLP / Speech Recognition

CONFIAR 2019

- Decentralized app for resolving real estate disputes; team consultancy project
- Solidity / Javascript / React / Node / MongoDB / Blockchain at Berkeley