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Sumanth Gurram

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EDUCATION

UC BERKELEY
BS in EECS
BS in Business
Expected May 2023
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 • HTML/CSS • SQL • JavaScript • C# • RISC-V Assembly • Soliditiy

TOOLS
PyTorch • TensorFlow • Keras • NumPy •Scikit-Learn • Pandas • OpenCV • Matplotlib • Git • Selenium • UNIX • Docker • React • Node.js • Express • MongoDB • GCP • Azure • OpenMP • Spark • CUDA • ffmpeg • Unity • Arduino

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, Robotics
May 2021 – Present | Cupertino, CA
- Perception and pose-estimation for robots that test Apple Watch
- Machine learning, 3D computer vision, simulation and data infrastructure

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
- Delivered a secure payment backend to scalably verify 1M+ transactions
- Using Corda, Java and Azure to integrate blockchain system to Quisitive team

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

PROJECTS

MAGMA 2021 - Present
- Automatically build image, audio, video and text datasets using web search
- Python / PyTorch / Google Cloud / Selenium / HTML / NLTK / Multiprocessing

LAVA 2020 - Present
- Large-scale language, audio and video perception across 1M+ YouTube videos
- Python / PyTorch / Unsupervised Learning / Transformers / CUDA / ffmpeg

NUMC 2020
- NumPy but for C with up to 1600X faster matrix arithmetic than naive
- C / OpenMP / Intel SIMD / Python / NumPy / Spark / 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