Bijan HANEY

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SKILLS

STILLS	
Program	MING: Proficient in: Python, Go, C++, bash, SQL Experience with: Javascript
Software/To	DOLS: Proficient in: Linux/Unix, PyTorch, Detectron2, aws, git, CI, pandas, scikit-learn, numpy, scipy Experience with: Tensorflow, jekyll, flask, gunicorn, nginx, LATEX
OT	CHER: Computer vision, NLP, machine learning/AI, deep learning, hypothesis testing, statistics, regression analysis, experimental design, web scraping, blockchain, particle physics
EXPERIENC	
Mar. 2021 - Present	Robotics Engineer - Viam, Inc., New York City, NY
1 100001111	• Currently developing object segmentation systems for robot arms and rovers.
Apr. 2019 - Jan. 2021	Senior AI Research Engineer - Augustus Intelligence, New York City, NY
	• Developed, trained, and tested object detection, segmentation, and classification deep-learning models in PyTorch to label retail products and identify people for real-time consumer analytics. Deployed in more than a thousand retail locations across the country on edge devices.
	• Developed fine-grain, few-shot computer vision models that could learn novel categories with 1 to 5 examples to reduce the time and cost of gathering datasets. Workshop paper presented at CVPR 2020.
Aug. 2018 - Apr. 2019	Co-Founder & Tech Lead @ Endjinn - ConsenSys, Brooklyn, NY
	• Led the development of back-office role automation agents at Endjinn, the AI group within the Ethereum venture studio Consensys. Aqui-hired by Augustus Intelligence.
	• Created a medical insurance claims agent that automatically read forms with OCR, processed the text, caught errors, and adjusted claims.
JAN. 2017 - JAN. 2018	Data Acquisition Operations Coordinator - CERN, Geneva, Switzerland
	• Led a team of five physicists in the on-line monitoring and repair of the TRT, a particle tracker and electron identification subdetector in the ATLAS detector.
	• Developed a C++ program to access an SQL database of weekly detector threshold readings and automatically detect and fix the threshold errors due to radiation damage.
Aug. 2013 - Nov. 2018	Graduate Research Assistant - University of Pennsylvania, Philadelphia, PA
	• Formulated and optimized a filter in C++ to reduce the stream of data from the Large Hadron Collider by 99.97% while still saving 99.5% of the desired signal for the analysis.
	• Helped develop a C++/Python end-to-end framework (30k+ lines) for cleaning, transforming, analyzing, and visualizing terabytes of data and Monte Carlo simulations using distributed HPC.
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PROJECTS/OTHER

JAN. 2018 - **1517 fellow (ar** χ **ain)**: Co-founded and developed an open-access, decentralized scientific journal on MAY 2018 - the Ethereum blockchain to disrupt the scientific publishing industry. Won **Best Blockchain Hack** and **Most Promising Hack** at *PennApps XVII* Hackathon in Philadelphia. Used the Ethereum blockchain as the ledger and IPFS as the distributed server. www.devpost.com/software/arxain

EDUCATION

	Ph.D in Physics, (M.S. in 2015) University of Pennsylvania, Philadelphia, PA
Sep. 2008 -	B.S. in Physics (Intensive).

MAY 2012 Yale University, New Haven, CT