David Crispell

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Education

University of Colorado, Boulder — Boulder, Colorado

B.S. in Computer Science, B.A. in Mathematics — *Expected May 2026*

- Relevant Coursework: Data Structures & Algorithms, Computer Systems, Linear Algebra, Multivariable Calculus, Differential Equations, Probability & Statistics, Real Analysis, Artificial Intelligence, Machine Learning, Human-Computer Interaction, Software Development, Principles of Programming Languages
- GPA: 3.785, SAT: 1570

Experience

Software Engineer — Sept. 2023 – Present

Edvise Inc. — *Boulder, Colorado*

- Used VLM API to reduce data collection time by 80% when datascraping publicly available course catalogues
- Built test environment to prevent low quality data from entering production database
- Implemented filter for class difficulty according to historical student performance data
- Enhanced class autofill algorithm by incorporating markov chain predictions
- Achieved a 50% time reduction in class planning when averaged across all majors

Tech Research Lead — August 2024 – Present

Boulder Launchpad, Pure Tech Sector — *Boulder, Colorado*

- Investigated promising tech startups in the Boulder area to identify employment opportunities for students
- Coordinated event guest speakers from VC firms for student meetings, fostering engagement with industry leaders
- Sourced talent from university student body to provide pipeline directly to Boulder area startups
- Managed sector researchers to produce startup evaluation predictions, write informational essays, and create market visualizations

Projects

President — Oct. 2024 – Present

Artificial Intelligence Student Initiative at CU Boulder — *Boulder, Colorado*

- Founded organization to increase student engagement with the research and development of safety in AI
- Hosted event guest speakers, ML/AI challenges, hackathons, research, and lectures on AI research & safety
- Sourced talented individuals to produce essays on long term AI safety using game theory to describe behavior
- Designed, created, and maintained informative website for the organization, aistudentinitiative.org

NeurIPS LLM Privacy Challenge | *Python, Github, Google Colab* — Aug. 2024 – Oct. 2024

- Collaborated with a team of 5 researchers to red-team a fine-tuned Llama3.1-8b-int instance
- Utilized contrastive activation addition to steer model behavior to regurgitate personally identifiable information
- Achieved and submitted positive result with an attack success rate of 6.5%
- Used Github and Google Colab to organize and update repositories with results
- Wrote a research paper outlining our methodology, experiments, findings, and avenues for future research

Exoskeleton | *C++, Arduino, Hardware* — Oct. 2020 – Jan. 2021

- Developed pneumatic prosthesis which monitored nerve activity in muscles to produce movement
- Compiled dictionary of nerve behaviors during exercise to determine how to properly provide mechanical support
- Utilized Arduino and a compact air compressor system to control pneumatic cylinders in the prosthesis

Technical Skills

Languages: Python, C/C++, Java, JavaScript, SQL, Swift
Frameworks: OpenCV, React, Node.js, Flask, Tensorflow, Pytorch, FastAPI, CUDA, NumPy, Matplotlib
Developer Tools: Visual Studio, Git, Google Cloud Platform, Anaconda Spyder, Jenkins
Interests: Artificial General Intelligence (AGI), Machine Learning, Generative AI, Computer Vision, Mechanistic Interpretability, Cognitive Metrics, Neuromorphic Computing, Inference + Training Hardware