

Christian F. Jung

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🕒 Experience

Microsoft

Software Engineer, Azure AI

Aug. 2022 – Present
Redmond, Washington

- › Shipped Azure AI Foundry (Microsoft's generative AI platform) to air-gapped sovereign clouds—built deployment pipelines, container orchestration, and security configs from scratch for secure government environments
- › Deployed Retrieval-Augmented Generation (RAG) systems for Azure OpenAI "On Your Data" into government environments, enabling secure LLM access to proprietary documents
- › Designing inference infrastructure for an unreleased edge LLM product; solving model serving, context management, and offline operation for on-prem deployments
- › Won 3rd place at the Azure OpenAI Hackathon for a refugee assistance chatbot built with the ChatGPT API, partnering with the International Rescue Committee

Novetta

Machine Learning Engineer and Lead Intern

Sept. 2020 – May 2021
Part-time & Remote

- › Cultivated research on synthetic image generation using OpenAI's DALLE and VQ-GAN for image augmentation
- › Utilized state-of-the-art similarity search algorithms to provide critical analysis for predictive maintenance of helicopter engine failures for military and DOD customers

Intern @ the Machine Learning Center of Excellence (MLCOE)

May 2020 – Aug. 2020
Remote

- › Developed a new method for text model explainability using generative transformers and Open AI's GPT to improve customer's understanding of black box ML learning models
- › Compiled research from new method into a closed source python package so all 1000+ of Novetta's employees could use my methods

Forge (Formerly Known as HackCville)

Courses Director

Aug. 2021 – May 2022
Charlottesville, VA

- › Manage a team of 30 in the teaching and curriculum development of Data Science, Software Engineering, UX Design, digital marketing, and graphic design courses
- › Facilitate the enrollment, marketing, and finances of 100+ students who signed up for our courses

Data Science Lead Instructor

Jan. 2019 – May 2021
Charlottesville, VA

- › Taught and developed lesson plans for Node Pro, a 10-week series of 2 hour classes, teaching data science fundamentals in Python, data manipulation and cleaning in pandas, machine learning fundamentals, and an introduction to deep learning
- › Introduced 75+ students to data science in the 3 semesters that the class has been taught

🔧 Projects

Mapping Floods and Building a Smart City for Ho Chi Minh City, Vietnam

National Science Foundation Funded Capstone Research

Aug. 2021 - May 2022

- › Create an app to warn Vietnamese citizens of floods in their area while working with international stakeholders and developing the cloud infrastructure.

Aligning the US Cyber Budget for the Army Cyber Command

Aug. 2020 - Dec. 2020

- › Assisted a Colonel in evaluating the Cyberspace Solarium Commission report to align their budget to "develop a consensus on a strategic approach to defending the United States in cyberspace."

Ranking Terrorism Propaganda on Twitter

Jan. 2020 - May 2020

- › Modified Google's PageRank algorithm to rank tweets that contained propaganda which allow the most influential terrorists online to be identified

🎓 Education

University of Virginia

BS Computer Science

Aug. 2018 – May 2022
Charlottesville, VA

Relevant Coursework: Machine Learning, Information Retrieval, Algorithms, Advanced Software Development

Languages: Python, Bash, C++, C#, Java, Dart + Flutter, HTML, C, Swift