# Christian F. Jung

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## 🎓 Education

**University of Virginia**                                              Aug. 2018 – May 2022
*BS Computer Science*                                                    *Charlottesville, VA*
**Relevant Coursework:**   Machine Learning, Information Retrieval, Hacking For Defense, Algorithms

## 📊 Experience

**Novetta**                                                            Sept. 2020 – May 2021
*Machine Learning Engineer and Lead Intern*                              *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
> Managed other interns and helped facilitate professional and social connections

                                                                       May 2020 – Aug. 2020
*Intern @ the Machine Learning Center of Excellence (MLCOE)*             *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
> Explained and wrote summaries of new NLP research in Novetta's monthly newsletters

**Forge (*Formerly Known as HackCville*)**                              Aug. 2021 – Present
*Courses Director*                                                       *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
> Provide mentorship and opportunities for staff to grow within Forge and run a three day leadership seminar

                                                                       Jan. 2019 – May 2021
*Data Science Lead Instructor*                                           *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
> Organized lab-sessions for small group instruction and provided catered feedback
> Introduced 75+ students to data science in the 3 semesters that the class has been taught

**Global Inquirer Podcast**                                            Aug. 2019 – May 2021
*Senior Technical Producer*                                              *Charlottesville, VA*
> Lead a team of 25 people in the development of weekly episodes that brought together a diverse group of distinguished academics, working professionals, and students to discuss current issues in foreign affairs
> Recorded audio in a professional studio and utilized Adobe software to edit and produce 10 episodes each semester

## ⚗ Projects

**Mapping Floods and Building a Smart City for Ho Chi Minh City, Vietnam**          Aug. 2021 - Present
*National Science Foundation Funded Capstone Research*
> 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

## ⚙ Skills

**Languages**  Python, Bash, C++, Java, Dart + Flutter, HTML, C, Swift
**Certifications**  Insider Threat Awareness, Intro to Information Security, OPSEC Awareness, DOD Unauthorized Disclosures
**Extracurricular Coursework**  Fast.ai - Practical Deep Learning for Coders, Stanford CS 223n - Intro to NLP
**Fun Facts**  PADI Scuba Certified, Gordon Ramsay super fan, and amateur chef