

Fausto J. German Jimenez

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Education

The University of North Carolina at Charlotte, 2022 (Expected), Charlotte, NC
Bachelor of Science in Computer Science (GPA: 3.91 of 4.0)

Degree Concentration: Data Science

Relevant Courses: Data Structures and Algorithms, Data Mining, Logic and Algorithms, Natural Language Processing, Visual Analytics, Computer Vision, Cloud Computing for Data Analytics

Honors: Dean's List: Spring 2021; Chancellor's list: Fall 2020, Fall 2021, Spring 2022

Programs: Early Entry (Accelerated Master's) Student (Program GPA: 4.0 of 4.0)

Rowan-Cabarrus Community College, 2020, Salisbury, NC
Associate of Science in Computer Science (GPA: 3.58 of 4.0)

Relevant Courses: Intro to Prog & Logic, Java Programming, Calculus I, Calculus II, Linear Algebra

Honors: Graduated with honors in 2020

Research Experience

OUR Research Scholar — *The University of North Carolina at Charlotte*, Charlotte, NC

JANUARY 2022 - APRIL 2022

- Researched different machine learning methods and techniques using PyCaret and Scikit-Learn to develop a predictive model for aflatoxin insurance claims in the U.S. based on temperature data
- Developed an abstract and poster presentation to summarize the results of the research

Undergraduate Research Assistant — *The University of North Carolina at Charlotte*, Charlotte, NC

AUGUST 2021 - DECEMBER 2021

- Developed the different parts of a web application that will serve as the primary platform for collecting crop-field data from farmers to train machine learning models, using Vue.js as the development framework
- Programmed a connection between the platform's front-end and back-end for user authentication and to display dynamic content, using Axios.js to communicate with RESTful APIs

Personal Projects

U.S. Currency Recognition (2022) — *A Computer Vision Project*

Executed a complete computer vision project, from data collection and labeling to model selection and training, resulting in an object detection system that could identify U.S. currency in images and live video.

<https://github.com/faustotnc/us-currency-recognition>

Ranker (Beta, 2022) — *A PageRank Visualization Tool*

Designed and developed a tool that could be used by students and practitioners alike better understand the PageRank algorithm, using web development technologies like React, Redux, and Cytoscape-Js.

<https://ranker.faustogerman.com>

Hinton (Alpha, 2021) — *An Interpreted Programming Language*

Engineered and implemented a multipass compiler and a stack-based virtual machine for the “Hinton” interpreted programming language, using Rust as the implementation language.

<https://github.com/hinton-lang/Hinton>

Personal Website (2020) — *A Portfolio Website*

Designed and developed the 7th iteration of an “about me” website using advanced web development technologies like Angular 2+, Typescript, and Three.js to showcase web development skills.

https://github.com/faustotnc/portfolio_website

Poster Presentations

In Search of a Predictive Model for Aflatoxin Insurance Claims Based on Temperature Data. April 21, 2022.

Undergraduate Research Conference at the University of North Carolina at Charlotte, Charlotte, NC.

Honors & Awards

Undergraduate Research Conference Award (2022) — *The University of North Carolina at Charlotte*

Recipient of the Math and Computer Science Poster Presentation Award at UNC Charlotte’s Undergraduate Research Conference

SPARC Scholarship (2019) — *Rowan-Cabarrus Community College*

Recipient of the SPARC scholarship from the Rowan-Cabarrus Community College starting in the fall semester of 2019 until the spring semester of 2020

National Society of Leadership and Success (2019) — *Rowan-Cabarrus Community College*

Inducted member of the Sigma Alpha Pi chapter since 2019

Phi Theta Kappa Honor Society (2018) — *Rowan-Cabarrus Community College*

Inducted member of the Beta Tau Theta chapter since 2018

Technical Skills

- **General Programming:** Python, TypeScript, JavaScript, Java, Rust
- **Data Science:** Pandas, Numpy, Scikit-Learn, Altair, TensorFlow, SQL
- **Web Development:** React, Angular 2+, Vue.js, Axios, Three.js
- **Compiler Theory (Beginner):** Stack VMs, LL(1) Parsers, Bytecode Compilers, ASTs