

Nicholas Talton

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EDUCATION

University of Virginia (Cumulative GPA: 3.654/4.0)

Charlottesville, VA

Anticipated B.S. in Computer Engineering 2024 (Major GPA: 3.837/4.0)

Classes taken: Programming & Data Representation, Theory of Computation, Advanced Software Development, Electrical and Computer Engineering I/II/III, Digital Logic Design, Computer Architecture, Ordinary Differential Equations, Discrete Mathematics, Linear Algebra I, Multivariable Calculus, Machine Learning, Cybersecurity, AI, AI Hardware, Operating Systems

SKILLS

Languages: Python (NumPy, Pandas, TensorFlow, Scikit-learn, Keras, PyTorch, OpenCV, NLTK/NLP/NLU), C++, Java (RESTful API), JavaScript (web development), C, Matlab, HTML, CSS (Bootstrap), VHDL/VHDL

Frameworks/Tools: Django, Git, Agile Methodologies (Scrum Master, Requirements Manager, DevOps)

Clouds: Microsoft Azure, Amazon Web Services (AWS)

Other: Socket Programming, GitHub, Data Modeling and Visualization

PROFESSIONAL EXPERIENCE

Parsons Corporation

Centreville, VA

Software and Database Engineering Intern

May 2023 – Present

- Contributed to the development of Skill Scout, a sophisticated full-stack web application, leveraging a Django framework to integrate with Salesforce and Workday. Utilized natural language understanding processes to efficiently match and interpret candidate resumes to open positions, providing talent acquisition teams with intelligent matching scores for effective hiring decisions.
- Developed a resume parser using natural language processing techniques as well as the full stack web app.

UVA Student Tutoring

Charlottesville, VA

Math, Physics, Chemistry, and Computer Science Tutor

September 2021 – Present

- Effectively managed a demanding and successful tutoring schedule for over 20 engineering students while being a full time student

NASA

Hampton, VA

Intern

June 2020 – August 2020

- An in depth application and extension of the previous mentorship research by comparing several methods for animating CAD structures for programming space structures using SpaceClaim.

PROJECTS

University Class Organizer/Study Buddy Finder

February 2022 – March 2023

Collaboratively developed a full-stack Django website using UVA's class API to coordinate study times with classmates. Leveraged Python, HTML, JavaScript, and Git for efficient code development. Followed agile methodology, test-driven development, and continuous integration/deployment.

Recognizing Landmarks at UVA with Neural Networks

November 2022 – December 2022

Developed an advanced image analysis system using deep learning techniques to accurately predict the geographic location of images. Leveraged a custom convolutional neural network (CNN) built with Keras and combined it with transfer learning for analysis. The project aimed to understand and classify images based on contextual features and visual patterns by utilizing the knowledge from a pre-trained model and comparing it to my own model.

AWARDS AND HONORS

University of Virginia Dean's List, Platinum level CyberPatriot 2nd & 3rd in state

ACTIVITIES

Cavalier Autonomous Racing

December 2022 – Present

CyberPatriot

September 2016 – Present

UVA Survivor Club

August 2021 – Present

Local Food Bank Volunteering

August 2020 – Present