# Ryan Dang

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# Education

### The Pennsylvania State University - University Park, PA

May 2024

Bachelor of Science | Double Major: Computer Science, Statistics

- Major Related Courses (Computer Science): Object-Oriented Programming, Web Development, Unix System Programming, Data Structures and Algorithms, Machine Learning, Database Management
- Major Related Courses (Statistics): Probability Theory, Mathematical Statistics, Stochastic Modeling, Applied Non-Parametric Statistics, Statistical Modeling
- **GPA:** 3.93
- Awards: Statistics Student Marshall, Dean's List, Magna Cum Laude

# Work Experience

### Information Technology Support Specialist Intern

May 2023 - Present

Applied Research Laboratory at Penn State

- Resolved technical issues for 50+ users per week by providing timely and effective support enhancing user productivity
- Managed Active Directory for organization, overseeing user account management for 500+ employees resulting in a 50% decrease in login issues.
- Updated 100+ articles within the Knowledge Base system, resulting a 20% decrease in resolution time for customer inquiries.
- Utilized JavaScript to create custom macros for Confluence, streamlining document functionality processes by 30%.

#### **Statistics Teaching Assistant**

Aug. 2022 - Present

The Pennsylvania State University

- Reviewed and critiqued 100+ student labs per week, providing actionable insights that boosted assignment quality by 25%
- Organized review sessions before major exams, resulting in a 20% increase in overall class performance.
- Collaborated with professor to develop interactive lesson plans and activities, resulting in a 20% increase in participation.
- Provided personalized feedback to students on assignments, leading to a 20% decrease in errors and an overall improvement in understanding concepts.

## Projects

### **Minting Audio NFTS**

- Developed and implemented a **Solidity** smart contract for minting audio NFTs on the **Ethereum** blockchain
- Integrated decentralized storage solutions using ThirdWeb to securely store audio files associated with minted NFTs
- Implemented a frontend interface for the audio NFT minting platform using React.js, making it easier for users to mint NFTs
- Utilized MetaMask for seamless integration with Ethereum wallets, allowing users to interact with the blockchain directly
- Created a functionality to fetch minted NFTs using blockchain gueries, allowing users to verify the existence of their NFTs

## **Clothing Classification**

- Created a deep learning model using TensorFlow to classify image datasets of articles of clothing, achieving a 93% accuracy
- Integrated Recurrent Neural Networks and Convolutional Neural Networks into the model using Keras and TensorFlow.
- Enhanced model performance by incorporating dynamic learning rate schedules, reducing training time by 25%
- Included data augmentation strategies, resulting in a 20% improvement of the model's ability to handle variations in input data.
- Conducted model evaluation using metrics such as precision, recall, and F1-score to help improve the model's accuracy.

## Technical Skills

Programming Languages: Python, C, SQL, Solidity, Java, JavaScript, HTML/CSS, R

Software/Tools: R-Studio, Active Directory, Firebase Authentication, Jira, Confluence, Bitbucket, MetaMask, ThirdWeb

Frameworks/Libraries: TensorFlow, Node.js, Next.js, React.js, Keras, PySpark, PyTorch, Numpy, Pandas