

# Chanyoung (Chad) Park

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## EDUCATION

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### University of California, San Diego

La Jolla, CA

*Bachelor of Science in Data Science*

*Sept. 2023 – June 2027*

- **Coursework:** Principles of Data Science, Data Structures and Algorithms for Data Science, Mathematical Foundations of Machine Learning, Linear Algebra, Multivariable Calculus, Neurobiology of Cognition
- GPA: 4.0

## PROJECTS

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### Auditory Sound Recognition using Deep Learning | *pandas, TensorFlow, scikit-learn, librosa* March 2024

- Created an audio number detection model using a convolutional neural network architecture, predicting a number between 0 and 9 based on raw audio waveforms converted to spectrograms

### Data Science Repository | *Python, NumPy, Matplotlib, pandas, scikit-learn, folium* June 2023 – Present

- Proactively sourced, imported, and analyzed diverse datasets from platforms such as Kaggle and UCI Machine Learning Repository, mastering a wide range of machine learning concepts and techniques concurrently

### Personal Website | *HTML/CSS, Javascript* May 2023 – Aug. 2023

- Applied skills acquired from online tutorials and documentation to develop a personal website using VS Code

## WORK EXPERIENCE

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### NeuroML at UC San Diego

San Diego, CA

*Undergraduate Research Assistant*

*Apr. 2024 – Present*

- Contributed to a mechanistic interpretability project by analyzing the semantics of individual hidden units within deep auditory networks trained for sound recognition tasks

### Code Ninjas

Cedar Park, TX

*Coding Instructor*

*Aug. 2022 – Apr. 2023*

- Learned an array of concepts in JavaScript to tutor and support 10 to 15 students in completing their assignments

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL, R, HTML/CSS

**Developer Tools:** JupyterLab, Google Colab, VSCode, IntelliJ, Sublime

**Libraries:** NumPy, pandas, scikit-learn, PyTorch, TensorFlow, Matplotlib, folium

## ACTIVITIES AND LEADERSHIP

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### Data Science Student Society at UCSD 2024 Project Cohort | *Member* Jan. 2024 – May 2024

- Developed a neural network model using PyTorch to accurately identify plant diseases using a comprehensive dataset comprising images of various plant species annotated with corresponding labels of healthy and unhealthy

## CERTIFICATES

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### IBM Data Science Professional Certificate

Issued July 2023

- Learned how to clean data sets, analyze and visualize data, and build machine learning models and pipelines
- Implemented newfound skills and knowledge from coursework into real-world projects, employing tools integral to the daily practices of data scientists

### Google Data Analytics Certificate

Issued June 2023

- Acquired essential analytical proficiency in data cleaning, analysis, and visualization tools such as spreadsheets, SQL, R, and Tableau
- Attained comprehensive understanding of the day-to-day practices and methodologies employed by junior or associate data analysts in their professional routines