

Keshav Santhanam

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EDUCATION

The University of Texas at Dallas <i>Masters of Science in Computer Science</i>	Aug. 2024 – May 2025 Richardson, TX
The University of Texas at Dallas <i>Bachelors of Science in Computer Science, GPA: 3.804 (Computing Scholars Honors)</i>	Aug. 2021 – May 2024 Richardson, TX

PROJECTS

Backpropagation With Multi-Layer Biases <i>Python, NumPy, pandas, Git</i>	Oct. 2023
<ul style="list-style-type: none">Developed and implemented a deep neural network learning model from scratch using Python (libraries used were NumPy and pandas) to find non-linear models using a sigmoid (logistic) activation function	
Multithreaded Hashing <i>C, Git</i>	Sep. 2022 – Oct. 2022
<ul style="list-style-type: none">Developed program in C using multithreading to find unique and deterministic (i.e. replicable) hash values for specified input files and tested using UNIX terminal in MobaXtermUsed Mutex locks to guarantee consistency of results (determinism)Stores hash values as a binary tree and combines them by rehashing from leaf nodes up to the root	
I Owe You (IOU) <i>React Native, Google Firebase, Git</i>	Jan. 2022 – May 2022
<ul style="list-style-type: none">Won 2nd Place among all ACM Projects submissions at UT Dallas for Spring 2022Worked as a full-stack developer in React Native to develop a financial transactions app to share and manage group transactions for bill-splitting	

SELECTED COURSEWORK

Artificial Intelligence, Machine Learning, Computer Vision, Computational Logic, Advanced Algorithms, Probability and Statistics, Computer Networks, Systems Programming in UNIX Environments, Software Engineering, Discrete Math I and II, Automata Theory

WORK EXPERIENCE

Resident Advisor <i>University Housing at The University of Texas at Dallas</i>	Aug. 2022 – Present Richardson, TX
<ul style="list-style-type: none">Engaged with and informed residents in my buildingHosted on-campus events for members of the housing communityPerformed rounds to check for compliance with University Housing rules and regulations	
Supervisor <i>University Recreation at The University of Texas at Dallas</i>	Aug. 2021 – May 2022 Richardson, TX
<ul style="list-style-type: none">Supervised building staff members and gym attendees while providing medical assistance as necessaryMaintained a safe environment by monitoring the quality of various pieces of equipment and reporting property maintenance concerns	

EXTRACURRICULAR ACTIVITIES

Vice President of Analytics, The Big Data Club <i>The University of Texas at Dallas</i>	Sep. 2021 – Present Richardson, TX
<ul style="list-style-type: none">Contacted corporations and other groups to raise funds for speaker events, industry panels, and workshopsOrganized industry and academic collaborations to increase interest in Big Data on campus	

TECHNICAL SKILLS

Languages: Python, C/C++, Java, React Native, JavaScript, SQL, HTML/CSS, MIPS32, Bash, Verilog
Libraries: PyTorch, TensorFlow, Keras, scikit-learn, NumPy, pandas, Matplotlib, Standard Template Library (C++)
Developer Tools: Git, Jupyter Notebooks, Google Firebase, Figma
Operating Systems: Windows, UNIX