Rian Puri

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EDUCATION

University of California, Berkeley **Berkeley, CA**
Electrical Engineering and Computer Science, B.S. *Aug 2022 - May 2026*
[**GPA: 3.6**]

QUALIFICATIONS

Skills: Natural Language Processing, Machine Learning, Databases, Robotics, Computer Architecture, Transformers
Languages: Java, Python, C, C++, JavaScript, MATLAB, R, SQL, RISC-V, VBA, HTML/CSS
Tools: SpaCy, Docker, Git, Jupyter, Valgrind, PyTorch, Arduino, NumPy, Pandas, Unix/Linux, Scikit-learn, Fastai

PROFESSIONAL EXPERIENCE

RecVue **Palo Alto, CA**
Software Engineer Intern *June 2024 - Present*

- Developing AI-Powered Assistant: Creating an AI Assistant leveraging large language models to translate natural language queries into SQL commands, boosting query processing efficiency by 30%.
- System Integration and Optimization: Designing and implementing an automated system for executing SQL commands on the Oracle database, retrieving customer data and generating accurate, human-readable responses.
- Enhancing request efficiency: Improving support ticket resolution speed by 25% through the automation of data retrieval and interpretation, significantly reducing manual workload and response times.

PROJECTS

CS61Classify *March 2024*

- Developed RISC-V assembly code to implement handwritten digit classification using ReLU activation in a machine learning model.
- Designed and implemented a simple Artificial Neural Network (ANN) as part of the classification process, enhancing the accuracy and effectiveness of the digit recognition system.

Build Your Own World *November 2023*

- Designed and developed a 2D interactive, tile-based exploration game engine using Java StdDraw and TileSet libraries.
- Implemented procedural generation techniques with seed-based algorithms to create diverse and randomly generated worlds with strategically placed keys and locks
- Created a robust Save/Load feature for an immersive user experience

S1XT33N *October 2023*

- Engineered a voice-controlled car leveraging Arduino (C++) technology, complemented by Signal Processing techniques
- Implemented Singular Value Decomposition (SVD) and Principal Component Analysis (PCA) algorithms to enhance the car's functionality and responsiveness to voice commands
- Utilized SVD for dimensionality reduction and noise reduction in collected data, while PCA facilitated feature extraction and efficient representation of the input space.
- Integrated these algorithms into the circuit design to enable data processing, resulting in precise control mechanisms and enhanced performance of the voice-controlled car.

Excel VBA automation *July 2023*

- Engineered and deployed a macro system engineered to efficiently manage extensive volumes of customer data sourced from the insurance gateway.
- Implemented real-time conversion of this data into a standardized format compatible with the Customer Relationship Management system, enabling widespread dissemination to all employees.
- Streamlined data processing, resulting in a 60% reduction in manual effort and error rates while handling large datasets.

EXTRACURRICULARS

FullStack Development | *Web Development at Berkeley* *April 2024*

- Explored principles of front-end and back-end development, gaining proficiency in full-stack web development and design
- Developed expertise in JavaScript, HTML, CSS, and Node.js, mastering the creation of dynamic and interactive web applications
- Collaborated effectively in cross-functional teams, contributing to the development of large-scale software projects from inception to implementation