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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.A. COMPUTER SCIENCE & STATISTICS Grad. May 2022 | Berkeley, California Cum. GPA: 3.61 / 4.0

GLENDA DAWSON HIGHSCHOOL

Grad. May 2018 | Houston, Texas Cum. GPA: 4.0 / 4.0

COURSEWORK

UNDERGRADUATE

- Introduction to Database Systems
- Structure and Interpretation of Computer Programs
- Data Structures
- Great Ideas in Computer Architecture
- Efficient Algorithms and Intractable Problems
- Discrete Mathematics and Probability Theory

SKILLS

PROGRAMMING

Over 1000 lines:

Java • C • Python • Assembly • NumPy • Pandas

Over 500 lines:

PyTorch • TensorFlow • HTML • CSS • JavaScript • Scikit-Learn

Familiar

OpenMP • AWS • Gurobi Optimizer • Spark • SIMD • ETFX

LANGUAGES

Fluency English • Mandarin

ORGANIZATIONS

STUDENT ASSOCIATION OF APPLIED STATISTICS

• Worked with other members on modeling real data using k-nearest-neighbors, decision trees, and neural networks

BERKELEY ANOVA

• Provided students in low-income school districts with a introductory computer science education

PROFESSIONAL EXPERIENCE

UC BERKELEY ELECTRICAL ENGINEERING AND COMPUTER SCIENCE | ACADEMIC INTERN

Jan 2019 - May 2019 | Berkeley, CA

- Academic Intern for CS61A: Structure and Interpretation of Computer Programs
- Debugged Python and SQL assignments and projects during labs and office hours.
- Explained concepts such as recursion, functions, and trees.

CODE NINJAS | Computer Science Tutor

June 2017 - Aug 2018 | Houston, TX

- Educated children between the ages of seven and fourteen on the fundamentals of game and website creation.
- Taught children JavaScript, HTML, CSS, and Scratch.

PRIVATE TUTORING | COMPUTER SCIENCE PRIVATE TUTOR

Aug 2017 - July 2018 | Houston, TX

- Worked as a private computer science tutor for a brother and sister who were seven and eight, respectively.
- Taught them the basics in website and game creation using HTMl, CSS, and JavaScript.

PROJECTS

FINE-GRAINED VEHICLE CLASSIFICATION

Jan 2020 - Current | Berkeley, CA

• Built NTS, Dense, and ResNet models to predict Make, Model, and Year of Production of various fine-grained car images ranging from security footage to online sources for Autel, a car diagnostics company.

DATA CONSULTING FOR GRANDMARK INTERNATIONAL

Sept 2019 - Dec 2019 | Berkeley, CA

- Developed a web application using Python Flask for a car parts company in South Africa.
- Built a model to help forecast demand of car parts as well as dates of peak sales, optimal dates to restock, and how to minimize lost sales.

ASSEMBLY NEURAL NETWORK Oct 2019 | Berkeley, CA

• Developed a Convolutional Neural Network to classify handwritten numbers using RISC-V, an Assembly language.

RANDOM WORLD GENERATOR April 2019 | Berkeley, CA

- Used to Java to build an engine that can generate a 2D-tile based map with random rooms and hallways to explore similar to retro NES games
- Added the ability for the user to interact with the world and "win" conditions.

BEARMAPS April 2019 | Berkeley, CA

- A web application that will display a map of Berkeley and find the shortest path between two locations
- Uses KDTrees and TrieSet as Data Structures and A* algorithm to find shortests path