

PAUL RODRIGUEZ

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EDUCATION

Master of Science in Computer Science University of California, Riverside	June 2019
Bachelor of Science in Computer Science University of California, Riverside, GPA: 3.53	June 2018

PROJECTS

Feature Selection	November 2017
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- Developed a program in Java that selects features from a data set that could be used to create a predictive model
- Used nearest neighbor algorithm and a “wrapper” function to remove irrelevant features from being considered
- Implemented forward and backward selection algorithms to determine relevant features from the data set
- Efficiently modified the forward selection algorithm to reduce the computational time by more than 50%

8-Puzzle Solver	October 2017
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- Created a program in Python that would successfully solve the 8-puzzle problem
- Implemented various search functions such as uniform-cost search, A* with misplaced tiles heuristic and A* with the Manhattan Distance heuristic
- Efficiently solved the more difficult puzzles with an average of 95% improvement in time when comparing the Manhattan Distance heuristic to misplaced tiles heuristic and uniform-cost search

RSHELL	January - March 2016
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- Recreated a simpler version of the Unix shell in C through object-oriented design
- Collaborated with team member in the development of RSHELL, ensuring deadlines were met and release of RSHELL was as scheduled
- RSHELL ran efficiently and achieved as close to exact results 90% of the time when compared to the original Unix shell

SKILLS

- **Programming:** C++, C, Bash, Python, Java
- **Software:** Atmel® Studio 7, Xilinx
- **Operating Systems:** macOS, Windows, Linux
- **Languages:** English (advanced), Spanish (advanced)
- Understanding of network infrastructure with an emphasis on Cisco hardware

JOB HISTORY

Teaching Assistant University of California, Riverside	September 2018 — Present
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- Instructed lab section of 25 students in Intermediate Embedded & Real-Time Systems
- Presented students with lab assignments and verified correctness of assignments at the end of lab
- Assisted students in resolving issues and challenged them to provide efficient solutions
- Supervised student examination sessions and submitted student records to professor

AWARDS

Recipient of UC Riverside Chancellor's Scholarship	September 2014 - June 2018
Dean's Honor List	Spring 2015, Winter 2016, Spring 2017, Fall 2017