

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	June 2018

PROJECTS

Feature Selection	March 2019
<ul style="list-style-type: none">Developed a program in Java that selects features from a data set that could be used to create a predictive modelUsed nearest neighbor algorithm and a “wrapper” function to remove irrelevant features from being consideredImplemented forward and backward selection algorithms to determine relevant features from the data setEfficiently modified the forward selection algorithm to reduce the computational time by more than 50%	
Placement and Routing System	November - December 2018
<ul style="list-style-type: none">Designed and built an ILP-based placement and routing system in Python for continuous flow microfluidicsImplemented the “Columba-S” routing model using the Gurobi ILP solver to meet a specified objective functionTranslated the constraints from Columba-S implementation to obtain the ILP formulation needed for the solverSuccessfully modeled the placement of microfluidic modules onto a chip of set dimensions	
Airline Database	November - December 2017
<ul style="list-style-type: none">Modeled and programmed an internet booking system for airlines in JavaUsed an ER-diagram to build the relational schema in SQL used for retrieving the contents from the databaseAllowed user to add passengers, book flights, take customer reviews, list flights between origin and destination, list popular destinations, list highest rated routes, list flight duration and list available seats for a specific flightRetrieved information 25% faster when indexing and clustering were used in the database	

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
<ul style="list-style-type: none">Instructed lab section of 25 students in Intermediate Embedded & Real-Time SystemsPresented students with lab assignments and verified correctness of assignments at the end of labAssisted students in resolving issues and challenged them to provide efficient solutionsSupervised 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