

ABELARDO P. FERRA

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EDUCATION

University of Arizona - Tucson, AZ

Bachelor of Science: Computer Science and Mathematics

May 2017

GPA: 3.3/4.0

SELECTED COURSEWORK

Database Systems Implementation

Computer Graphics

Advanced Operating Systems

Algorithms

Computer Security

Compilers & Systems Software

PROJECTS

Protein Characteristic Scripts

Masel Lab - University of Arizona

May 2016

- Programmed in Perl and R
- Perl script used to extract protein data from a MySQL database
- R script used to do statistical analysis on extracted protein data

EXPERIENCE

R&D Software Engineer

Lum.AI

December 2022 - April 2024

R&D Software Engineer

School of Information - University of Arizona

February 2021 - December 2022

- Worked on program analysis for the SKEMA team project
- Developed Python programs to support programming language interpretation and translation
- Previously did program analysis for the AutoMATES and ReMath team projects
- Participated in multiple in-person hackathons with the objective of integrating the multiple working parts of the project into one end-to-end pipeline

Graduate Teaching Assistant

Department of Computer Science - University of Arizona

May 2017 - December 2020

- Graded assignments and exams with the instructor and other teaching assistants
- Developed shell scripts to streamline grading of students' programs
- Administered office hours to assist students with weekly programs and concepts

Head Section Leader

Department of Computer Science - University of Arizona

August 2016 - May 2017

- Assisted the instructor with grading assignments and exams
- Instructed a weekly recitation session of 20 students to reinforce lecture topics
- Hosted weekly lab hours to help students with programs and concepts

Research Assistant

Masel Lab - University of Arizona

April 2015 - May 2016

- Researched protein characteristics in aging genes as a project with a postdoc
- Presented project results to a group of biologists and received feedback

TECHNICAL SKILLS

Programming Languages:

- Proficient: C, Java, Python
- Familiar: C++, Haskell, Bash, Ruby, Prolog, SQL, Perl, R, Git, MIPS, AVR

Operating Systems: Microsoft Windows, Linux, Mac OS X

Software: Terminal, Vim, VS Code, Notepad++, Eclipse, Selenium

LEADERSHIP

Ambassador

Computer Science Department - University of Arizona

August 2016 - May 2017

- Represented the department at university and high school events
- Answered prospective students' questions about the CS program
- Volunteered at university and department events