CONTACT

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KENNETH LAMAR

Post Doctoral Scholar - Computer Science

EDUCATION

Doctor of Philosophy - Computer Science University of Central Florida - Orlando, FL (USA)	2018 - 2024
Master of Science - Computer Science University of Central Florida - Orlando, FL (USA) Masters along the way	2018 - 2023
Bachelor of Science - Computer Science University of Central Florida - Orlando, FL (USA) Minor in Mathematics	2014 - 2017
Associate of Arts Daytona State College - Daytona Beach, FL (USA)	2011 - 2015

WORK EXPERIENCE

Post Doctoral Scholar 2024 - Present University of Central Florida - Orlando, FL (USA) Continuing graduate research projects and training new graduate students **Computing Graduate Student Intern** Summer 2023 Lawrence Livermore National Laboratory Livermore, CA (USA) Evaluated code quality metrics to improve maintainability using ROSE LCOM Tools to measure class cohesion and a tool to measure code churn. Tools: C++, Python, Ada, ROSE compiler, gitchurn, gprof, static analysis **Applications Developer Internship** 2017 MVP Sports Clubs - Orlando, FL (USA) Developed customer touchpoint system, guest check-in alert, customer risk factor identification, iOS and Android apps, and API integrations. Tools: ASP.NET, SQL, C#, JavaScript, Java, Swift Earth Team Volunteer 2014 US National Resources Conservation Service -DeLand, FL (USA) Assisted in ArcGIS mapping. PUBLICATIONS Evaluating HPC Job Run Time Predictions Using **DEBS 2023 Application Input Parameters**

17th ACM International Conference on Distributed

and Event-Based Systems, June 2023

SKILLS

Concurrent Data Structures	5+ yrs
High Performance Computing	4+ yrs
Program Analysis	1+ yrs
C++	6+ yrs
Python	5+ yrs
Java	3+ yrs
JavaScript	2+ yrs
C#	1+ yrs
SQL	1+ yrs



PROJECTS

CONVUL Reimplementation

Tools: Intel PIN, C++, CONVUL

Recreated CONVUL, a concurrency vulnerability detector using dynamic analysis, as a student project, since the original design did not have source code available.

Apr 2021

24-Player Mario Kart Split Screen Multiplayer Tools: WinAPI, libusb, ViGEM, Batch scripting, Dolphin, VMWare, dnsmasq Multi-instance workflow and tooling for massively multi Wrote a custom controller driver, a window tiling tool, ar for setup and usage. Supports many other games too.	
UCF Garage Tracker Tools: Node.JS, Oracle Cloud	2020
Capture and log UCF parking data over time.	
TEACHING	
Graduate Teaching Assistant	Spring 2021
COP 3402 - Systems Software - UCF	
Instructor: Euripides Montagne	
Graduate Teaching Assistant	Spring 2020
COP 4520 - Multicore Programming - UCF	
Instructor: Damian Dechev	
Graduate Teaching Assistant	Fall 2019
CAP 4102 - Web Design and User Experience - UCF Instructor: Reza Aria	
Graduate Teaching Assistant	Spring 2019
CIS 3360 - Security in Computing - UCF	
Instructor: Joshua Lazar	
Graduate Teaching Assistant	Fall 2018
CIS 3360 - Security in Computing - UCF Instructor: Michael McAlpin	

AWARDS

- 2018 UCF College of Graduate Studies Presentation Fellowship
- President's List Daytona State College 7 times between 2011-2015
- General Research Award Daytona State College Awards Convocation 2011 - First place award, general research paper