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 | |
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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