Zhongkai Liu

zkliu@ufl.edu | (954) 892-4903 | www.zkliu.net

Experiences:	**Software Engineering DevOps Intern**

Nielsen | Tampa, FL | Agilemetrics App & CICD pipeline | Summer 2018
- Built an app with Golang that collects & process Agile metrics from Jira API and post to Google Sheets, which get further presented on a dashboard providing insights on teams' performance.
- Built a CI/CD pipeline for the app, using Jenkins to automate test, build, & deployment processes. Reduced Docker image size down (20 MB) which saves storage and computing resource.
- The pipeline will be adapted by other teams to achieve faster quality assurance and delivery.

Backend Web Service Developer Intern

The Home Depot | Atlanta, GA

THD Web App Monitoring Dashboard API | Summer 2017
- Built webservices that query from Google BigQuery for logs for THD internal webservices and aggregate the metrics data into useful stats for displaying on the monitoring dashboard.
- Wrote queries to gather team-specific data to build hierarchical relationships for dashboard display.

Payments Interceptor API | Summer 2016
- Built webservices that intercept payment requests and encrypt pay card numbers for PCI compliance.

Undergraduate Teaching Assistant & Tutor

University of Florida | Spring 2018

Database Systems, Programming Fundamentals II | Spring 2018
- Held lab sessions to help students, assisted instructor with composing and grading assignments.

Software Engineering | Fall 2017
- Led discussions to help students learn & use MEAN stack and to monitor students practice Agile.

CISE Academic Tutoring Center | Spring 2017
- Provide help and guidance for students with questions from their classes, homework, and projects.

Personal Projects:

Airpick (http://www.uflcsa.org)
- A web app developed with MEAN stack and is currently used in production. The app serves as a platform for UF students putting requests for airport pick-up done by UF volunteers.
- I served as both developer and product manager and I contributed by writing the core functionalities of add/update/cancel pickup and lodging requests, as well as finding zero cost hosting for the app.

Eatwhere (https://eatwhereapp.herokuapp.com/)
- A web app developed with MEAN stack as a search engine for dishes. Given a set of preferences, display the dishes that best fit the user's appetite.

Smart Parking Simulator
- C++ program with GUI that simulates a parking management system that can significantly reduce the customer parking time by tracking free spots as each customer enters/leaves the garage.

Game – TigerIsland
- Dave's Software Engineering project, a java program with GUI and game-AI against other players.
- I contributed the most on the socket-networking and the logical communication with the server.

Technical Skills Summary:

proficient with **Java**, **C++** and querying/aggregation in **MySQL**, **MongoDB**; full-stack web dev with **MEAN stack**; back-end in **Node.js**, **Springboot, Golang**; had exposure on projects using **Reactjs**, **PHP**, **Python**; experienced with **Jenkins** for CICD automation, **Docker**, **Kubernetes** to deploy/scale containerized apps

---

Education:

Bachelor of Computer Science

University of Florida College of Engineering | Gainesville, FL | Class of 2019 | GPA 3.85
- Relevant courses: Java & C++ with OOP, Professional Communication for Engineers, Operating System, Software Engineering, Digital Logic, Data Structures & Algorithms, Database Systems, Network Fundamentals, Embedded Systems Design, Natural Language Processing

Standard High School Diploma

Western High School | Davie, FL | Graduated 2015 | GPA 3.95/4.0
- AP Courses taken: Calculus, Physics, Chemistry, Computer Science, Statistics