**Kiran T. Payne**

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**EDUCATION**

Purdue University – *West Lafayette, IN*  December 2020

**Bachelor of Science in Computer Science** (GPA: 3.44/4.0) Concentration: Software Engineering

**EMPLOYMENT**

**Purdue University, C Design Lab, Software Developer February 2020 – Present**

* Redesigned existing AR (Google ARCore & Unity AR Foundation) application for a research project.
* Integrated Photon Unity Networking and Cloud Anchors to create collaborative AR-IoT experiences.
* Collaborated with a team of 6 to design a block programming language with Google’s Blockly API.
* Led design on an electronics simulation tool (created in JavaScript) using above block programming tool.

**Ecolab, IT Division, Intern June 2020 – August 2020**

* Created a foundational Threat Intelligence System that collects critical security data from various APIs.
* Optimized algorithm for data ingestion into ElasticSearch and reduced overall run-time by 95%.
* Visualized ingested data using Kibana to create consolidated Intelligence Dashboards for InfoSec team.
* Orchestrated and executed the company’s first hackathon for 20+ interns over 2 days.

**RSA Security, Dell EMC (Security Division), Shift Manager December 2018 – February 2020**

* As a 24/7 point of contact, communicated with 100+ financial institutions around the world.
* Designed and deployed an internal tool in Python that automated an entire role at our site.
* Assisted in redesigning outdated programs and methods for submitting QA.
* Managed corporate inbox and analysts on shift by assigning tasks and distributing work.

**RSA Security, Dell EMC (Security Division), Senior Anti-Fraud Analyst January 2018 – February 2020**

* Detection, Analysis, and Shutdown of online fraudulent activity (Phishing, Malware, Brand Abuse, etc.)
* Coordinated with internet authorities and international CERT teams to shut down above activity.

**Purdue Computer Science Department, Undergraduate Teaching Assistant June 2019 – May 2020**

Course: CS 18000 (Object-Oriented Programming & Problem Solving in Java)

* Assisted 20+ students in a lab section, teaching foundational programming skills and coding standards.
* Held regular office hours 3+ times a week to assist students with homework help or content questions.

Course: CS 25200 (Systems Programming)

* Assisted 30+ students in a lab section, teaching shell programming and memory optimization in C.
* Held online office hours once a week to assist students with homework help or conceptual understanding.
* Helped shift course resources and lab materials online in response to COVID-19 pandemic.

**SKILLS**

Programming Languages: C, C++, C#, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript

Tools/Frameworks: APIs, ARFoundation (ARCore & ARKit), AWS, Blockly, Bootstrap, ELK, Firebase, Git, Google Cloud, MongoDB, MySQL, Oculus, PostgreSQL, Puppeteer, React, Unity, Unreal Engine 4

**RECENT PROJECTS**

**MyTrade – Collectible Marketplace & DBMS September 2020 - December 2020**

* Connected PostgreSQL database to frontend and managed main transactions between client and server.
* Led creation of UI using React (with hooks) and custom CSS.

**Keep Talking or Suffer a Windows Update – A Multiplayer VR Game January 2020**

* Achieved communication between a PC client and VR headset (Oculus SDK) using Java Socket I/O.
* Executed randomization algorithm for game conditions on back-end for a replayable User Experience.
* Completed project in 36 hours at the “BoilerMake VII” University Hackathon within Unity Engine.

**OnQueue – A Social Music Application January 2020 – May 2020**

* Maintained a RESTful API in Java that allows our web-app to be changed by members in real-time.

**Cookin’ Boiler - A Unity VR Game September 2019 – November 2019**

* Built a Virtual Reality cooking simulation using Unity Engine, C# Scripts, and the SteamVR SDK.
* Created original 3D models in Autodesk Maya and implemented realistic collision detection.

**Quizwiz – An Online Quiz Taking Platform August 2019 – November 2019**

* Utilized React and TypeScript in conjunction with open-source packages to make a quiz website.
* Created a NoSQL database with Firebase and integrated in each webpage with dynamic state changing.

**\*Updated December 2020**