Aaron Shackelford

[aaronshackelford@me.com](mailto:aaronshackelford@me.com)

[+1 (916)-995-9174](tel:19169959174)

Sacramento, California 95819

# Education

## **American River College**

Associate of Science in Computer Science (2022)

Graduating GPA 3.5 of 4.0

## **California State University, Sacramento**

Bachelor of Science in Computer Science (2023)

Graduating GPA 3.5 of 4.0

# Experience

## University of San Francisco, Sacramento Campus

Contracted IT Help Desk and IT Field Technician | August 2019 to December 2022

Maintained systems and performed on site technical support for staff, faculty, and student body.

Created accurate and meaningful documentation that was used by all parties and other outside consultants. Bounced around between L1, L2, and L3 responsibilities. Duties included, but not limited to: performing mass imaging, specialized medical network installations, audio/video installations, misc. technical issues, computer repair, and physical installations.

## Design Hub Internships

3D Viewer Developer Intern| August 2021 to December 2021

Developed a 3D viewer meant to be used by museums to bring their art to life in the digital world. Creating a digital space to allow users to manipulate artwork in a live 3D environment, giving people around the world the ability to access art from the internet via Unity Web Player.

## Data Science Club at Sac State

Treasure, Front Facing Project Lead, Collaborative Community Lead, Event Planner, and Media Management | September 2022 to December 2023

Created advertisement campaigns for speakers and events; ensuring they reached the most eyes on campus and ensured that the events were appealing to the public and university community. Planned events and ensured that they were accessible to all. This meant wheelchair access, subtitles, hearing assistant apparatuses, a variety of foods for all diet and culture types. Broadcasting the events to the internet so that members at home could freely participate. Auditing all transactions and keeping an accurate and up to date log of all transactions and gave financial advice to the club’s purchases and finical gain; as well as worked on grant security and sponsorship relations.

# Tools Used

Various Ticketing systems such as Service Now | Jira | Power Point | Slides | Excel | Sheets | Word | Docs | VS Code | Visual Studio Code | InteliJ | Unity Game Engine | Open Broadcast Software | Unraid | Zoom | Skype | OpenWRT | Proxmox | PFSense and OpenSense | ChatGPT and other such LLM tools | MatLab 23 | Micorsoft Remote Desktop | GitLab, Github, and other such version control products | WireGaurd | OpenVPN | Ninite | Premier Pro | After Effects | Photoshop | Illustrator | Microsoft Deployment Toolkit (MDT) | JAMF | WIKI | Various Knowledge Bases | TeamViewer | Google Workspace Admin Console | Global Protect | Docker

# Classes Taken

Advanced Algorithm Design and Analysis |Algorithm Design/Problem Solving | Assembly Language Programming | Career Planning | Computability and Formal Languages | Computer Network Fundamentals | Computer Organization | Computer Software Engineering| Data Analytics and Mining | Data Structure and Algorithm Analysis | Database Management Systems | Discrete Structures for Computer Science | Introduction to Machine Vision | Introduction to Structured Programming | Introduction to System Programming in Unix | Object-Oriented Computer Graphics | Object-Oriented Programming | Operating System Principles | Robotics | Senior Project | Web Programming

#### Other relevant courses

Basic Biological Concepts | General Physics emphasis Mechanics | Applied Linear Algebra | Algebra for Calculus | Trigonometry for Calculus | Full Calculus series 1-3 | Introduction to Probability and Statistics | Business and Computer Ethics | Public Speaking | Multicultural Children's Literature | Women In U.S. History | Asian Cultural History 1800 BCE – 600 BC

# Skills

## Familiar Coding Languages

Python, Java, C, C++, C#

## Hosting Servers

Currently running two servers. Server one is a data vault which is used for mass backup. Server to is uses for general users, it hosts games servers such as Minecraft, hosting compilation, media for movies and tv streaming, and other similar client host applications.

## Intranet and Internet Networking

Currently researching custom networking. Setting up DHCP servers, DNS servers, multicasting, ONT and MOCA data transport, data encryption over VPN, port forwarding, network obfuscation and IP masking, and other such technologies.

Cable Termination | Setup and installation of 802.11a/b/g/n/ac/ax protocols | Installation and configuration of intranet and internet networks | Coax, Fiber, and RJ45 installation.

## Misc.

Strong trouble shooting skills, documentation detail, communication skills, experienced in teamwork with groups sizes 2-26.

# Interests

## Broadcast Automation

Interest in making automation of network broadcasts such as YouTube, Twitch, or Facebook Live Stream via programs like OBS. Creating a broadcaster that can automatically detect what is going on in the scene and automatically play an animation script or switch scenes on the fly without human operator intervention.

## Computer Vision Meta Data Tagging

Interest in tagging photos via computer vision. Adding meta data to personal photos make them easier to find. Such as adding accurate descriptions, information about items in the scene, location of an image, and other such useful metadata for searching and providing information to the user looking at the image. This is intended to work on all images, taken digitally or converted to digital via scan.