

Shivani Kalamadi

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EDUCATION

University of California, Davis

M.S. in Computer Science; GPA: 3.91/4.00

Davis, California

Sep 2022 – Jun 2024

SDM College of Engineering and Technology

B.E. in Computer Science; GPA: 4.00/4.00

Karnataka, India

Aug 2015 – Jun 2019

Relevant coursework: Distributed Database Systems, Machine Learning and Discovery, Operating Systems, Analysis and Design of Algorithms, Human Computer Interaction, Data Structures, Computer Architecture, Computer Networks.

SKILLS

Languages: C/C++, C#, Java, Python, Go, JavaScript, SQL, MATLAB, R

Technologies: Django, Node.js, React.js, MySQL, MongoDB, Git, Docker, AWS, Kubernetes, GCP, Linux, ROS, OpenCV, PyTorch, TensorFlow

WORK EXPERIENCE

Oracle

Cloud Engineer

Bangalore, India

Aug 2019 – May 2022, **Full-time**

- Specialized in Oracle Integration Cloud (OIC) and Oracle Fusion Applications, with expertise in ERP modules such as Financials, Chart of Accounts, Project Portfolio, Inventory, and Supply Chain Management. Integrated AI/ML for enhanced data analysis, prediction, and optimization.
- Developed and managed both inbound and outbound integrations using web services and FBDI templates. Gained extensive experience in bursting BI Reports and managing ESS job creation/scheduling as a Senior Cloud Analyst.
- Proficient in utilizing Business Intelligence Publisher (BIP) and SQL for the creation and customization of customer-facing reports. Conducted in-depth performance optimization research on database engines, significantly improving query execution times by approximately 30%.
- Led the campus-to-corporate initiative program, playing a key role in mentoring and guiding new hires from the Class of 2020 and 2021, fostering professional growth and adaptation in a corporate environment.

PROJECTS

Custom Operating System and Game | [GitHub](#)

- Built a custom operating system from scratch on a hypothetical RISC-V based game console. Developed a snake game to work with the developed firmware.
- Developed multiple APIs for other game developers to port their game into my firmware. These APIs included I/O Controller APIs, Timer based APIs, Thread Management, Graphics APIs and Memory Management APIs.

Abstract Art Using Speech Emotions | [GitHub](#)

- Used VQGAN and CLIP together as a generator and perceptor on Python Speech Recognition Models: CNN, NLP, LSTM and compared their performance.

RadTok – Blockchain based Video Streaming | [GitHub](#)

- Using Radix blockchain technology RADTOK is a video streaming platform for fair compensation of content creators using the Radix ecosystem for Blockchain. Developed a distributed key-value store using Rust, demonstrating a deep understanding of distributed systems and fault tolerance.

A Study on Browser Extension Ecosystem – A comparison between Chrome and Firefox | [GitHub](#)

- Using Python and ExtAnalysis core library, this is a thorough comparison of browser extensions with Static Analysis for permissions in manifest.json files and Dynamic Analysis domains contacted and ran them through VirusTotal API for scanning malicious URLs.

Handwriting to Text Conversion – For Pharmacy Maintenance and Analysis

- Built in Android Studio using Google Vision API in Java for pharmacy maintenance and analysis using Linear Regression in Python.