

Shivani Kalamadi

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EDUCATION

University of California, Davis

M.S. in Computer Science; GPA: 3.94/4.00

Davis, California

Sep 2022 – Dec 2024

SDM College of Engineering and Technology

B.E. in Computer Science; GPA: 9.00/10.00

Karnataka, India

Aug 2015 – Jun 2019

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

SKILLS

Languages: Python, SQL, JavaScript, Java, C/C++

Technologies/Frameworks: Node.js, React.js, AWS, Kafka, Docker, Jenkins, APIs (GraphQL and REST), Git, Power BI, Tableau

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**, and **Supply Chain Management**.
- Proficient in utilizing **Business Intelligence Publisher** (BIP) and **SQL** for creating and customizing customer-facing reports. I collaborated with clients, assessing their requirements and iteratively addressing their specific needs with technical solutions.
- Developed Inbound and Outbound data integrations using **REST APIs** to orchestrate data flow among various ERP cloud solutions while maintaining data standards.

PROJECTS

Internet Access Disparities in Woodard Nations of Unites States | [GitHub](#)

- This research entails a large scale analysis of network measurements from mLab and Ookla and low-level analysis for a few select regions in US to understand which socio-economic factors affect Internet access and how they differ in urban and rural populations.
- Current work on this project involves factoring in ISPs in the areas of apparent disparities and analyzing the network infrastructure of that region at census block group level.

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

- Leveraging Python and the ExtAnalysis core library, this project analysed the manifest.json files for permissions and domains as static analysis. We also conducted dynamic analysis by measuring the network traffic for each extension. Hosted the pipeline on AWS ECS leveraging GraphQL, DynamoDB and CloudWatch.

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

- Built this OS from scratch on a hypothetical RISC-V based game console and developed a snake game to work with the developed firmware through API support such as 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.