

JAI NARAYANAN

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EDUCATION

University of Michigan Ann Arbor

Graduation, May 2024

Bachelor of Science in Computer Science: GPA 3.8/4.0

Coursework: Data Structures and Algorithms, Computer Architecture, Cryptography, Web Systems, Computer Security, Operating Systems

WORK EXPERIENCE

Kodely, Founding Engineer, Sunnyvale CA

Feb 2022 - Present

- Created Kodely's instructor training and instructor scheduling platforms using NestJS and React to automate **200+** hours of manual instructor onboarding generate **70% increased efficiency** in administrative tasks and scheduling
- Created a cross platform mobile app built with React Native for instructors to manage their teaching schedules and timesheets
- Created a Single Sign on System using KeyCloak to enable streamlined user authentication between all of Kodely's platforms
- Designed a containerized event driven microservice architecture and deployed it on Azure's Kubernetes Service to ensure a scalable and resilient tech platform to match the company's growing user base

Capital One, Software Engineering Intern, Richmond VA

Jun 2023 - Aug 2023

- Implemented Python FastAPI framework to transition **12 million auto loan accounts** from a third party loan servicing software to in house systems
- Delivered highly configurable code with full unit and functional test coverage, ensuring seamless transitions for future repurposing of the application in additional financial business areas
- Configured a CI/CD pipeline using Jenkinsfiles to run our functional test suite and deploy our containerized application to AWS ECS Fargate

Teladoc Health, Full Stack Software Engineering Intern, Purchase, NY

Jun 2021 - Aug 2021, May 2022 - Dec 2022

- Identified inefficient usage of REST and initiated transition to GraphQL where appropriate, leading to **60%** faster API calls
- Created Python library to integrate our Jenkins pipelines with Salesforce to revamp the application lifecycle management process
- Overhauled consumer UI using Salesforce lightning web components to integrated search and pagination capabilities

vMeetingSpace, Software Engineering Intern, Brooklyn, NY

Dec 2020 - Jun 2021

- Developed tooling and dashboards for event organizers, saving on average **~15** hours of planning per event
- Deployed a Kubernetes cluster to ensure availability of application for virtual events with **2000+ attendees**

EventVestor, Quantitative Software Engineering Intern, Princeton, NJ

Summer 2019, 2020

- Automated sentiment analysis and classification of financial documents through **SciKit** machine learning models in **Python** trained to categorize texts by event type. Resulted in **45% efficiency** over previously manual classification.

PROJECTS

- **CVE Checker (2023):** Created a Splunk App to identify and cross check CVE vulnerabilities present on a system (Python)
- **OSQueryManager (2022/2023):** Used [osquery](#)'s remote API to create a management tool to monitor a fleet of devices, allowing system administrators to identify potential security threats at scale (Python, React.js)
- **HSS Clubs (2021):** Virtual club fair platform built from scratch to serve as an online alternative in light of COVID-19 pandemic. Advertised **30+** clubs and reached **500+** students. (AWS, React, Node)

LEADERSHIP & ACTIVITIES

Instructional Assistant, Intro to Computer Security

- Designed and implemented Capture The Flag (CTF)-style web security challenges to provide **330+** students with hands-on opportunities to apply and reinforce web security principles learned in the classroom
- Introduced CI/CD pipeline and testing for course project infrastructure hosted on AWS
- Created CronJobs to sync students Autograder.io project scores to the Canvas learning management systems gradebook

Michigan Hackers, System Design Lead

- Developed and delivered a comprehensive system design curriculum to introduce 15+ students to the theory and practical applications of system design through a semester long project of building a video streaming web app

SKILLS & INTERESTS

Proficient Languages: JavaScript/Typescript, C++, Python, Rust

Technologies: React, FastAPI, React Native, Docker, Kubernetes, Azure, AWS

Interests: Air Frying, F1, Compilers, 3D modeling, Climbing