# JAI NARAYANAN
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## EDUCATION
**University of Michigan Ann Arbor: Bachelor of Science in Computer Science** - GPA 3.82/4.0      Graduation*, May 2025*
**Coursework**:Data Structures and Algorithms, Cryptography, Computer Security, Web Systems, Compilers, 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 generating **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 and developed an 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**, *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
- **Swiftly (2023):** Built a streamlined employee handbook generator with automatic regulatory change alerts for easy maintenance of compliant handbooks across federal and multi-state requirements (Python)
- **FleetSec(2022/2023):** Used osquery's API to create a management tool for monitoring a fleet of machines, enabling sysadmins to identify potential security threats on their clusters at scale (Python, Electron.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. (PHP)

## LEADERSHIP & ACTIVITIES
**Instructional Assistant,** *Intro to Computer Security*
- Expanded CI/CD pipelines and testing frameworks for expansive course project infrastructure hosted on AWS
- Configured CronJobs to sync students Autograder.io project scores to the Canvas learning management systems gradebook
- Designed web security exam questions challenges to provide 330+ students an opportunities to apply and reinforce web security principles learned in the classroom

**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, Climbing, 3D modeling