

# Kaushal Nerkar

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## EDUCATION

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**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Master of Science in Computer Science*

*Expected May 2025*

**Cumulative GPA:** 3.93/4.00

**Vellore Institute of Technology Chennai**

*Bachelor of Technology in Computer Science and Engineering*

*April 2019*

**Cumulative GPA:** 3.33/4.00

## TECHNICAL SKILLS

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**Languages:** C++, JAVA, HTML, CSS, JavaScript, Angular, Nodejs, Python, Java Spring, Groovy, React, flask

**Software and OS:** Windows, Linux, MS OFFICE, MATLAB

**Additional:** SQL, AWS, Terraform, Kubernetes

**Certifications:** AWS Certified Developer Associate, HashiCorp Certified Terraform Associate

## PROFESSIONAL EXPERIENCE

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**HSBC Software Development India, Senior Software Developer | Pune, Maharashtra**

*July 2019 – July 2023*

- Designed, developed, and maintained Java SpringBoot applications to support debit history retrieval and balance management.
- Orchestrated scalable, highly available, and fault-tolerant containerized deployments with Kubernetes
- Implemented Jenkins pipelines to automate continuous integration and continuous deployment (CI/CD) for applications which brought down deployment time by 75%
- Optimized application responsiveness by using Splunk and AppDynamics to track and troubleshoot performance issues within AWS databases

**Defense Research and Development Organization, Intern | Pune, Maharashtra**

*May 2018 - July 2018*

- Developed a local server to aggregate and distribute updates from archive servers to multiple clients
- Leveraged Xen virtualization on HP servers and scripted cron jobs & shell scripts for efficient update mirroring and package management
- Improved system security with an internal update approach, which streamlines blacklisting of malicious packages
- Reduced internal Linux System's update time by an estimated 40% through a local Ubuntu repository

## PROJECT EXPERIENCE

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**KubeControl App, Independent Project | Binghamton, NY**

*January 2024 – February 2024*

- Created a containerized application deployment platform using EKS (Amazon Elastic Kubernetes Service) and Kubernetes to host a variety of applications
- Programmed an application using React.js for frontend development and Flask as backend server to call Kubernetes APIs
- Increased management of deployed apps via a user-friendly UI, reduced deployment time, and provided a scalable, easy-to-manage platform

**A2CW (Automated API Compliance Watch), Team Member | Pune, Maharashtra**

*January 2022 – October 2022*

- Owned development of the CI/CD pipeline, enabling continuous application deployment on Kubernetes and designing the Cloud Connectivity Pattern for seamless AWS Aurora DB integration
- Led the configuration of AppDynamics, Splunk, and DataDog for comprehensive application performance monitoring and troubleshooting
- Contributed to the design and development of features within A2CW's Self-Compliance Tool, optimizing batch jobs for bulk data processing

**Samba Sheep API Migration Tool, Team Member | Pune, Maharashtra**

*May 2020 - August 2020*

- Designed, implemented, and deployed a one-click Node.js solution to migrate HSBC APIs from Pivotal Cloud (PCF) to AWS Cloud
- Streamlined the migration of APIs with easy to use utility which saved approximately 1.3 million for the bank
- Encouraged a collaborative environment by inner-sourcing utility for wider adoption across HSBC groups

## CO-CURRICULAR EXPERIENCE

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**VITeach Club, Student Teacher | Chennai, Tamil Nadu**

*August 2016 - July 2018*

- Tutored underprivileged children (grades 1-8) at The Adi Dravida Welfare School with focus on math and logic skills development through gamified learning experiences

**VIT BAJA Team (Team roadRunners), Head of Electrical Department | Chennai, Tamil Nadu**

*August 2015 - July 2018*

- Designed and implemented a real-time data tracking systems for an All-Terrain Vehicle (ATV), leading to team rank improvement (30th to 12th to 9th) in the BAJA ESI 2017, 2018, and 2019 competition