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	Jiauo	nttps://www.iinkedin.com/in/sacnin09/				
EDUCATION						
Master of Science: <b>Com</b> B.Tech: <b>Information T</b>	echnology		of Colorado Boulder, USA nstitute of Technology Karnata	ka, Surathkal	4.00 GPA 8.45 CGPA	12/2024 05/2019
TECHNICAL SKILLS	8					
Course Work	Data Structures and Algorithms Design and Analysis of Algorithms Data Center Scale Computing		Database Systems Computer Vision Natural Language Processing	Distributed	Big Data Architecture Distributed Systems Object-Oriented Analysis and Design	
Languages	C, C++, C#, Java, Python, HTML, CSS, JavaScript, TypeScript, Node.Js, SQL, NoSQL					
Tools	Spring Boot, Pandas, Hadoop, PySpark, AEM, React, Angular, Ionic, Cordova, Capacitor, Polars					
Frameworks	GCP, AWS, Docker, Kubernetes, Jenkins, Redis, MinIO, Firebase, MongoDB, DynamoDB, MySQL, Kafka, RabbitMQ, ZeroMQ, GitHub, JIRA, Plotly					
PROFESSIONAL EX	PERIENCE					
Esri, USA Software Developer Intern 05/2024 - Present	• Built a tool using <b>C#</b> to f	uzz test the	ArcGIS Enterprise server for	performance an	d correctness.	
	<ul> <li>Responsible for architecting the tool using async tasks and the multi-threaded programming paradigm to generate 10-100 billion requests, which could trigger code execution across various domains of the business logic.</li> <li>Incorporated a python script that leveraged the fast data frame library Polars and generated graphs of the</li> </ul>					
	execution details using <b>Plotly</b> to analyse execution patterns across business logic to draw conclusions on the performance and correctness of the system.					
Institute for Student-AI Teaming, USA Software Engineer	<ul> <li>Built mechanism to track user actions on Microsoft makecode editor, store it to DynamoDB and provide it to machine learning pipeline to analyse collaboration among users. Deployed service on AWS ECS.</li> <li>Developed AWS lambda that gets triggered on DynamoDB write, and generates AMR graph from the utterances of the user.</li> </ul>					
09/2023 - Present	<ul> <li>Responsible for architecting and developing various machine learning pipelines and services over AWS cloud.</li> </ul>					
Optum Inc, India Sr. Software Engineer 11/2022 - 04/2023	<ul> <li>Developed a Jenkins DevOps pipeline for automatic code build and deployment on AEM. Reduced manual work by up to 80%.</li> <li>Responsible for creating module that syncs local git with Adobe Cloud Git and notifies the user on deployment status via email, save 100% monitoring time.</li> <li>Built a python tool that compares two websites employing Opency-Python and Imutils packages. Reduced manual work by up to 90%.</li> </ul>					
SAP Labs, India Software Engineer 06/2019 - 11/2022	<ul> <li>Developed cloud-native applications for procurement sector. This required a thorough knowledge of domain driven design and cloud architecture design principles. 100% of on-premise applications were migrated to cloud.</li> <li>Responsible for user interface, database modelling, implementing Kafka based inter-service asynchronous messaging architecture and developing authorization and security using Spring Security framework.</li> <li>Integrated ESRI ArcGIS map service to SAP UI5 version of MRS app using APIs. Increased user experience by 50% in visualizing the current position of the service provider, source to destination routes and travel details (considering live traffic).</li> </ul>					
TECHNICAL PROJE	CCTS					
Distributed Video Analyzer (Distributed Systems) 12/2023 – 12/2023 Github link	<ul> <li>smaller chunks and distributed detection.</li> <li>Utilized ZeroMQ for efficient without loss of frames.</li> <li>Employed Google Company</li> </ul>	cient analys	g the master-worker architect to worker nodes. Each worker sis of video frames, optimizing the to proficiently deploy and mand or distributed computing tasks.	node works on data transfer and	assigned chunks for	or object
Music Separation System (Distributed Systems) 11/2023 – 11/2023 Github link	<ul> <li>Created a Kubernetes cluster that provides a REST API for automatic music separation service and prep different tracks for retrieval.</li> <li>Used Redis as a message broker and MinIO for audio file storage.</li> <li>Deployed services on Google Kubernetes Engine.</li> </ul>					orepares the
ZwellStar 02/2022-05/2023 Playstore link	<ul> <li>Built e-commerce and food delivery system with Ionic, Firebase, Node.js and GCP to gain full-stack development experience.</li> <li>Gained experience in submitting the app to the Google Play Store.</li> </ul>					