Saurav Bandi

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EDUCATION

Pennsylvania State University — Malvern, Pennsylvania — Aug 2022 – May 2024 — **GPA: 4.0/4.0**
Master of Professional Studies in Engineering Management (Software)
Courses: Decision & Risk Analysis, Optimization Modeling, Technical Project Management, DB design, Predictive Analytics, Negotiations, Ethics in Leadership, **Global Leadership (At EM Strasbourg, France).**

Jawaharlal Nehru Technological University Hyderabad — Hyderabad, India — June 2015 – July 2019
Bachelors in Electronics and Communication Engineering
Accolades: Founded an AR/VR start-up, which trained over 3,500 students, gained national media coverage, and led it to a successful acquisition.

WORK EXPERIENCE

Kovexa - Solutions Architect - Cloud / AI — Malvern, Pennsylvania — May 2024 – Present

- Spearheading the cloud and AI architecture of **Kadal**, a scalable, secure, and modular enterprise-grade AI workbench for K-12.
- Engaged with stakeholders and school districts across the US to understand AI-readiness, compliance needs, and guided solution adoption through pre-sales technical demos, presented solutions at AWS Summit, DC, AASA, ASBO International to name a few.
- Collaborating with teams across South Korea, India and the US, I play a key role in co- architecting and developing a multi-tiered architecture using Amazon EC2, S3, Document DB, Lambda, and CloudFront for the Kadal Platform currently deployed at California Collaborative For Educational Excellence (CCEE), ELMA SD, Briarcliff Manor Union SD and many more.
- Also, leading the cloud and software architecture of **Hermes Health**, a HIPAA-compliant telehealth platform on AWS serving customers across Vegas and the Bay Area. Designed a real-time webhook-based architecture, integrating SDKs such as Stripe (payments), Dyte (video/audio), and Eyenuk (diagnostics).
- Architected a multi-AZ failover infrastructure using EC2, S3, MongoDB, ELB, Route 53 failover routing policies, and Elastic IP reassociation to ensure high availability and disaster recovery for the **Hermes Health** Application Currently on App/Play Store
- Designed secure backend API gateways using Nginx reverse proxy on EC2 and monitored system health via CloudWatch Alarms and custom Route 53 health checks and Integrated ACM for SSL certs across subdomains ensuring end-to-end encryption.

National Science Foundation (NSF) - Graduate Research Fellow (MPS, Penn State) — State College, Pennsylvania — Aug 2022 – May 2024

- Secured **NSF** funding exceeding $950,000 and achieved record-time publication of research findings, which were accepted by the Florida **Winter Simulation Conference**, where I was invited to present.
- Developed an interactive Virtual Reality environment using Unity Engine and C#, integrating mathematical functions to showcase a VR landscape, while also conducting data analysis to evaluate the effectiveness of VR-based teaching methods.

BizTechCube Pvt Ltd - Solutions Architect — Hyderabad, India — June 2021 – July 2022

- Engineered the software and cloud architecture of a customized e-commerce application with an integrated demand forecasting tool on AWS. Led end-to-end delivery—including client acquisition, deal closure, contributing to over $3 million in sales.
- Worked closely with clients to gather and analyze requirements, translating business needs into a custom Linode-based cloud architecture for one of India's Leading Publishers. Led the full lifecycle—from client acquisition to solutioning and deployment, powering their transformation into a leading AR-integrated e-learning platform, contributing to over $6 million in sales.

XLENZ LLP USA - Product Solutions Architect (Joined through Acquisition of Eduridge**)** — Hyderabad, India — July 2019 – June 2021

- Architected and delivered an enterprise-grade, no-code AR deployment platform enabling users to build and publish AR experiences in under 15 minutes, reducing development time and cost by over 80%.
- Designed a scalable AR engine leveraging Unity, React JS, Node JS, Flutter, MongoDB, and AR SDKs (Vuforia/Wikitude), fully integrated with AWS services for reliable, low-latency performance. Pilots Built for Bosch, AP State Gov, Indian Education Dept.
- Solutioned a performant and scalable backend using Amazon S3 for secure media storage (with planned Lifecycle Management and Intelligent Tiering), API Gateway and Lambda for serverless JSON-based configuration delivery, MongoDB as the DB and Amazon CloudFront for global content acceleration and seamless AR rendering on mobile devices.

Management Skills: Agile Methodologies (Scrum), Project Management, Business Process Mapping, Stakeholder Analysis
Technical Skills: Cloud and Software Architecture, EC2, S3, Lambda, CloudFront, API Gateway, Route 53, IAM, ACM, CloudWatch, RDS, DocumentDB, Unity, Python, Java Script, Node JS, Unreal Engine, Adobe Xd, Figma, Webhooks.

CERTIFICATIONS & ACCOLADES

- Awarded a fully funded scholarship by NSF for a master's program, totaling $140,000 in financial support.
- **AWS Certified Cloud Practitioner (CLF-C01) , AWS Certified Solutions Architect – Associate (SAA-C03)**
- Received state honors for leading the deployment of the COVID tracking application in Telangana, India
- Secured the Under -19 Football Districts Championship title for Hyderabad,