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# PROFESSIONAL EXPERIENCE

## Software Engineer Intern | Cinema and Television Arts, California State University Fullerton, CA Oct 2024 – Present

* Engineered full-stack web applications supporting digital asset management and content workflows using React.js, Node.js, and Express.js, improving media workflows for 1,000+ students across content-heavy departments.
* Shipped RESTful APIs and optimized backend logic with asynchronous handlers, reducing data processing time by 35%.
* Deployed and maintained applications on AWS (EC2, S3), implementing secure configurations and automated backups.

**Full Stack Developer** | **Tseng College, California State University Northridge, CA** Jan 2021 – Dec 2023

* Collaborated with cross-functional IT teams to debug, enhance, and maintain internal tools using Agile practices, improving system reliability and usability for over 500 users across the department.
* Designed and implemented dynamic UI improvements and backend automation scripts using JavaScript and Python to streamline ticket resolution workflows and reduce manual effort.
* Monitored server logs, diagnosed infrastructure issues across production environments, and optimized system response time and workflow latency by 30% through proactive error tracking.
* Integrated APIs and built real-time dashboards to monitor system metrics, service health, and user activity trends, enhancing visibility and reducing incident response time by 25%.

# PROJECTS

## AI-Powered Checkers Game with Minimax Algorithm

* Developed an unbeatable checkers AI using Python, Minimax, alpha-beta pruning, and a custom heuristic function, optimizing decision-making speed and reducing move count against human players.
* Simulated over 1,000 nodes per decision tree using PyGame, improving evaluation depth by 30% and increasing user engagement by 50% in local gameplay scenarios.

## Infrastructure as Code for Cloud Automation

* Provisioned 15+ AWS resources using Terraform and deployed 5 microservices on EKS with TLS and API Gateway.
* Automated CI/CD via GitHub Actions, reducing deployment time by 40% and improving security posture.

## Student Information System for Course Enrollment

* Developed a backend enrollment system with RBAC and optimized SQL queries, supporting 1,000+ concurrent users.
* Delivered real-time UI updates and secured data access across roles, enhancing system integrity and usability.

## Cloud-Based Chat Server with VoIP and Video Conferencing

* Deployed secure chat system using Kubernetes, PostgreSQL, and Nginx; enabled real-time communication with 99.9% uptime.
* Designed a pipeline for continuous improvements, showcasing AI model deployment practices.

## ML-Based Resume Parser

* Built a serverless resume parsing tool with scikit-learn, spaCy, and AWS Lambda to classify candidate data in real time.

# LEADERSHIP AND VOLUNTEERING

**Data Analytics Manager** | **PMI-Orange County Chapter, CA** May 2025 – Present

* Analyzed member engagement data using Excel pivot tables; created reports and dashboards to support outreach strategy.
* Applied data modeling and segmentation to support product marketing initiatives and improve user retention.

# EDUCATION

## Master of Science in Computer Science Jan 2023 – Dec 2025

California State University, Fullerton – Fullerton, CA

## Bachelor of Science in Computer Information Technology Aug 2020 – Dec 2023

California State University, Northridge – Northridge, CA

# SKILLS

**Languages**: Python, Go (learning), Java, SQL, C++ **Backend:** Node.js, REST APIs, Microservices Architecture **Tools:** Git, GitHub, Docker, Kubernetes, Jenkins, CircleCI **Cloud & DevOps**: AWS (EC2, Lambda, S3, RDS), Terraform **Databases:** PostgreSQL, MongoDB, MySQL