

Geeth Sekhar Chadalawada

Principal Software Development Engineer

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PROFESSIONAL SUMMARY

Principal engineer with 8+ years of experience across platform architecture, frontend modernization, performance work, and developer productivity. Set technical direction across multiple organizations, got platforms adopted by 20+ teams, and delivered real gains in reliability, speed, and engineering efficiency along the way. Built out micro-frontend platforms, region-build automation, automated test generation, and AI-assisted engineering workflows.

SKILLS

Languages and Frameworks: React, Preact, JavaScript, TypeScript, Redux, Java, Python

Cloud and DevOps: Cloud Infrastructure, OCI, AWS, GCP, CI/CD, Deployment Automation, Terraform

Testing: Test Automation, Jest, Playwright, Selenium, GenAI Test Generation

Architecture and Practices: Platform Architecture, Micro-Frontends, Performance Optimization, Caching, AI-Agent-Assisted Engineering, Prompt Engineering, Cross-Team Technical Leadership, Code Review, Mentoring

WORK EXPERIENCE

Principal Member of Technical Staff | Oct 2020 - Present

Oracle Cloud Infrastructure

(Promoted from Member of Technical Staff to Senior Member of Technical Staff to Principal Member of Technical Staff.)

Own engineering and platform architecture for OCI Console end to end - setting technical direction, keeping it running reliably in production, and getting it adopted consistently across 20+ teams. Also push AI-agent-assisted engineering workflows to help the team ship faster.

- Got 20+ cross-functional teams onto one frontend architecture by building a micro-frontend framework on Preact, Oracle JET, and Gateway, which made the UI a lot more consistent and easier to maintain and scale.
- Cut down platform fragmentation across multiple organizations by leading the migration of 20+ OCI Console pages onto the standardized MAUI framework, which made life easier for the service teams building on top of it.
- Took new-region launch time from 3+ days down to under 12 hours by re-engineering and automating the Touchless Region Build pipeline for OCI Console, setting a new benchmark for region-build speed within OCI.
- Got P97 load times under 2.5 seconds for a console used by millions of customers worldwide, through multi-layer caching, asset chunking, and better CDN policies.
- Brought post-deployment P1 incidents down 30% by tightening up how the team deploys - mandatory change-management templates, single-flock deployer tooling, and 100% Selenium canary coverage.
- Saved 50+ service teams from writing tests by hand with a GenAI-powered framework that auto-generates end-to-end functional tests for MAUI configurations.
- Pushed org-wide adoption of AI-agent-assisted engineering workflows using tools such as Codex and prompt engineering, which sped up delivery and cut down on manual work.
- Designed and shipped the Announcements Opt-Out feature end to end, which earned OCI four Gartner points and gave users more control.
- Reviewed code and mentored engineers on architecture and best practices, raising the bar on code quality and helping several of them grow into stronger, more independent contributors.

Technologies: Codex, AI Agents, Prompt Engineering, React, TypeScript, Preact, Redux, Python, Terraform, Oracle Cloud Infrastructure, Oracle JET, Gateway, Jest, Playwright, Selenium, Jira, TeamCity, Bitbucket

Graduate Research Assistant | Jun 2019 - Feb 2020

California State University, Los Angeles, CA

Built full-stack tools and machine learning models to help researchers at Cal State LA track and reduce campus energy use and carbon emissions.

- Built machine learning models that forecast campus energy consumption with 90% accuracy, trained on historical consumption data.
- Gave researchers real-time visibility into campus energy and carbon-emission data by building the ESPC Research Lab website and an interactive dashboard on Google Cloud Platform.
- Designed a PostgreSQL data model to support research requirements and keep sensitive project data secure.
- Improved dashboard accuracy by integrating the AccuWeather API to pull in real-time temperature data.
- Co-authored the paper *Toward a Sustainable Campus: Development of an Environmental Energy Portfolio Management Tool for Cal State LA*, submitted to Energy, Sustainability and Society.

Technologies: PHP, HTML5, CSS3, JavaScript, jQuery, AJAX, Python, PostgreSQL, Google Cloud Platform, Google Maps API, AccuWeather API, GitHub

Application Developer | Nov 2016 - Jul 2018

HOAAlchemy LLC, Pleasanton, CA (Hyderabad, India)

(Promoted from Application Developer Intern to Application Developer.)

Built and shipped full-stack web and iOS apps to modernize how homeowner associations operate, owning everything from backend services and database design to cloud deployment.

- Designed, built, and deployed web and iOS applications for 5 homeowner associations and 800+ residents, covering backend services, database design, and cloud deployment.
- Built Java Spring and PHP backend applications that powered resident communications, payment tracking, and real-time amenity updates through one unified portal.
- Redesigned the PostgreSQL schema to keep up with growing platform demands for real-time and sensitive production data.
- Integrated REST APIs from 8 third-party services - Adobe Sign, Dropbox, Forte, Intuit, Mandrill, QuickBooks, SurveyMonkey, and Twilio - to expand workflow coverage and improve the user experience.
- Led the expansion of the platform to iOS, taking it out to 250+ beta devices.
- Delivered serverless REST backend components using Node.js, AWS Lambda, and API Gateway.
- Set up CI/CD and deployment automation with Jenkins and GitHub to cut down deployment friction on AWS-hosted environments.

Technologies: Java, Java Spring, JSP, Servlet, PHP, Swift, Node.js, PostgreSQL, AWS, EC2, RDS, S3, Lambda, API Gateway, GitHub, Jenkins, Postman

EDUCATION

Master of Science in Computer Science, California State University, Los Angeles, USA

Specialization: Machine Learning and Neural Networks | Aug 2018 - May 2020

Bachelor of Technology in Information Technology, Andhra University, Visakhapatnam, India

Specialization: Advanced Web Technologies and Database Design | Oct 2013 - Mar 2017

PROJECT HIGHLIGHTS

Humpback Whale Identification for Whale Conservation | May 2019

- Trained a CNN-based deep learning model on 33,000+ images to identify humpback whale species, reaching 72.39% accuracy after testing a few different image-analysis techniques.

Technologies: Machine Learning, Deep Learning, Neural Networks, CNN, Keras, NumPy, Pandas, SkLearn, Matplotlib, Python

Human Activity Tracker | Dec 2018

- Designed a supervised machine learning model that detects physical activity from smartphone gyroscope and accelerometer data, reaching 92.88% recognition accuracy.

Technologies: Machine Learning, NumPy, Pandas, SkLearn, Matplotlib, Python