




Steve Kehlet

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EXPERIENCE

SOFTWARE ARCHITECT, Remote

Avaneer Health, March 2022–Present

Led the design and deployment of key architectural solutions, including a CI/CD pipeline that enhanced developer autonomy and reduced cross-team dependencies, a NATS supercluster for communication in a decentralized architecture, and a multi-region disaster recovery system. Prototyped decentralized applications for client adoption and implemented generative AI proofs of concept, such as a FHIR-based RAG application and AI tools for summarizing RSS feeds and Slack links. Partnered with engineering teams to deliver scalable, cost-efficient, and resilient systems while mentoring team members and upholding architectural integrity.

ARCHITECT, SOFTWARE DEVELOPMENT, Irvine, CA

NextGen Healthcare — Catalyst Platform Team, July 2021–March 2022

Technical lead responsible for designing a suite of AWS-based components and services to provide common functionality to NextGen products. Designed an audit storage and retrieval system to meet requirements of 100TB of audit data with 1TB/month expected growth. Developed several proofs of concept to demonstrate technical feasibility. Established specifications on structure and validation of event messages. Technologies: AWS EventBridge, CodeBuild/Pipeline, CloudFormation, CloudFront, Python, Lambda, Athena, S3, Parquet.

PRINCIPAL ENGINEER / PRODUCT ARCHITECT, San Diego, CA

NextGen Healthcare — NextGen Office, May 2020–June 2021

Presented a path toward improved code quality and operational sustainability via the Product Technical Roadmap (PTR). Negotiated with the Core Team to allocate 10% of scrum team time to PTR work and the reduction of technical debt. Presented architectural goals semi-annually to the NextGen Portfolio Management Board. Presented a monthly summary of product highlights, opportunities, and threats to NextGen's Chief Architect. Participated in monthly company-wide architectural team meetings to present topics of mutual concern and interest. Produced architectural documentation to stakeholders to provide common ground for discussions. Led the NextGen Office Architecture Committee for discussing and solving technical problems. Met with scrum teams in San Diego, Atlanta, and Bangalore to present PTR tickets and answer questions.

PRINCIPAL ENGINEER, San Diego, CA

NextGen Healthcare — NextGen Office, December 2018–May 2020

Improved reliability with the setup of a fault-tolerant Redis cluster. Built an automated system to snapshot and clone an AWS Redshift database to use for testing/development. Resolved numerous operational problems through code improvements and process automation. Established a logging standard using SLF4J. Technologies: Java, Tomcat, Oracle, S3.

PRINCIPAL ENGINEER, Irvine, CA

NextGen Healthcare — Health Data Hub, June 2014–December 2018

Designed a method to scale horizontally by using Docker containers and RabbitMQ. Designed a method to sync Elasticsearch data using a PostgreSQL table as a journal. Designed an authentication layer using a Node.js microservice and AWS Cognito. Wrote shell scripts to build and deploy the application using Docker containers. Led Team Fibonachos as Scrum Master for one year. Technologies: AWS ECS, Terraform, Docker, Node.js.

LEAD DEVELOPER, Costa Mesa, CA

Mirth — Mirth Appliances, June 2007–June 2014

Designed a Linux-based product to run Mirth Connect at customer locations with software updates and phone home features. Developed the Appliance's software frontend, a PHP-based Control Panel for Appliance setup and operation. Developed an auto-tuning mechanism for PostgreSQL based on available system resources. Developed additional management software to handle advanced deployment scenarios. Technologies: Linux, Apache, PHP, PostgreSQL.

SR. SYSTEMS ADMINISTRATOR, Irvine, CA

WebReach — Informacare, May 2005–June 2007

Improved the uptime and performance of InformaCare, a web-based application serving 4M hits/day. Managed Network Appliance clusters and NFS configurations. Designed a multi-VLAN network for security and cost savings. Upgraded Oracle and migrated from Solaris to Linux. Resolved various infrastructure issues causing performance problems. Improved deployment scripts to ease administration. Technologies: Solaris, Linux, Java, Oracle.

SYSTEMS ADMINISTRATOR, Irvine, CA

Conexant Systems, Inc., April 2002–May 2005

Reduced costs by moving simulation clusters from Solaris/SPARC to Linux/x86. Reconfigured switches to use VLAN trunking to allow joining any port on campus to any network. Doubled WAN performance by correcting a problem with TCP window sizes. Technologies: Solaris, Linux, Cisco, Oracle.

EDUCATION

COMPUTER SCIENCE, Long Beach, CA

California State University, June 1997

CERTIFICATIONS

- Generative AI with Large Language Models, DeepLearning.AI, December 2023
- Coursera Big Data (2015) Specialization, July 2016
- Oracle Certified Professional: Oracle 8i Database Administrator, August 2002
- AWS Certified Developer — Associate, October 2018
- Cisco Certified Network Associate, March 2003
- Advanced Software Technologies Certification, UC Irvine Extension, March 2002

AWARDS

- 2021 NextGen MVP
- 2017 NextGen MVP