

KUMARIL BHATTACHARYA

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SUMMARY

An accomplished and driven software engineering professional with extensive experience in software design, project management, and cloud platform development. Established capabilities in coding, strategic planning, and tactical execution. Recognized for building strong relationships with internal and external partners. Proven aptitude for consistently delivering scalable solutions that meet and exceed client and company expectations. Leverages excellent communication, interpersonal, and problem-solving skills to collaborate with team members and achieve operational excellence. Serves as a key contributor to the long-term success of the organization.

**Mobile Applications | Cloud Platforms Development | Design Cloud Infrastructure | Product Management
Software Engineering | Product Development | Enterprise Solutions | HIPAA and Cybersecurity Management**

TECHNICAL SKILLS

Public and Private Cloud: GCP Cloud Services, Azure, Walmart Cloud Native Platform (WCNP), AWS Cloud Services, UHG Data Center

PM and Tools: Jira, Confluence, Rally, Tempo, SDLC, Agile

Architect Tools: Visio, Drawio, Sparx, Alfabet

Web Technologies and Standards: Web Services, SOAP, REST, JSON, GraphQL

Languages: Java, C, C++, Python (beginner), JavaScript

Application Framework: Java Spring, Spring Boot

UI Framework and Styling Tools: AngularJS, Ext JS, Sencha, SaaS, React

Test Frameworks and Tools: Jenkins (Hudson), Jtest, Selenium

Databases: Oracle, MySQL, SQL Server, Postgres, SQLite, Cassandra

UI / Markup Languages: AJAX, HTML, DHTML, XHTML, XML, XSL, XSLT

UI Framework and Styling Tools: AngularJS, Ext JS, Sencha, SaaS, React

Streaming Tools: Kafka, RabbitMQ

Development Tools / IDEs: Eclipse, JBuilder, Titanium Studio, Red Hat Studio

EXPERIENCE

WALMART HEALTH

Hoboken, New Jersey (Remote)

Principal Architect, 2022-2024

- Created a standard-based interoperability pipeline to ingest data from EMRs, payers, and health partners; achieved a reduction of 100+ hours in development and testing time.
- Defined and managed FHIR profiles for Walmart Health; coordinated with Data Governance to meet 100% HIPAA compliance for FHIR-based data storage.
- Designed a Terminology server to manage healthcare code standards for an interoperability pipeline; developed 30% of the total code sets, including the EMRs' proprietary code sets for clinical data transformation and mapping.
- Promoted and advocated standard-based architectural integrations with vendors in support of value-based care settings within Walmart Health; achieved a 50% reusable ingestion pipeline via Cloverleaf.
- Designed RESTful APIs as part of a scheduling platform to support omnichannel initiatives; achieved a 100% distributed architecture supporting read / write to multiple sources of truth.

OPTUM, INC.

Basking Ridge, New Jersey (Remote)

Director, Enterprise Architect, 2017-2022

- Implemented a pipeline-design pattern to integrate with EMRs through standard-based interfaces, such as HL7 and FHIR, as part of a telehealth product offering; saved hundreds of developer hours for future integration efforts.
- Developed micro-product solutions for the Optum Care Management Platform, Assessment / Questionnaire, Care Team Management, Chronic Care Management, and Program Enrollment as part of a platform offering; possible savings depended on its enterprise-wide adoption.
- Defined reference architecture for domains in the clinical space owned by UnitedHealthcare and Optum Care.
- Spearheaded and participated in a proof-of-concept IoT Gateway project for COVID; demonstrated key modernization concepts, such as real-time event-driven architecture, with vendor partnerships; and helped executive leadership with technical feasibility.
- Managed the workloads of solution architects for assigned clinical applications and presented implementations to the broader team of onshore and offshore architects regularly; achieved a 20% gain in velocity in a two-week sprint cadence.

PHRQL, INC.

Pittsburgh, Pennsylvania

Co-Founder and Chief Technology Officer, 2012-2017

- Grew revenue to \$350K within two years of product launch in a niche market with long sales cycles.
- Designed a SaaS platform that was HIPAA compliant and EHR ready for dietitians based on IDNT and the nutrition-care process.
- Led team of 10+ offshore and in-house software engineers and data scientists.
- Partnered with marketing and sales to close enterprise retail customers and captured 60% of the retail segment.
- Designed a product portfolio that addressed the needs of a market segment for HIPAA compliance and other dietetic services.
- Created and maintained a product roadmap based on Agile principles.
- Interfaced with customers to gather requirements and create opportunities for upselling new modules on a SaaS platform.

ADDITIONAL EXPERIENCE

STEALTH MODE, San Jose, California, **Co-Founder**, 2010-2011. Designed and developed cost-effective and portable home-care solutions for chronic illnesses around the world, geared toward juveniles who wanted to manage diabetes by using a social environment. Created solutions to run on the iPhone and Android platforms.

CISCO SYSTEMS, INC., San Jose, California, **Senior Software Engineer**, 2005-2011. Led the development and management of three network-management products. Increased the productivity of new offshore engineers by 30% and increased revenue by \$5M through faster support for the new optical switch hardware. Developed solutions that allowed Cisco's customers to keep using legacy applications more effectively while Cisco saved 8,000 staff hours per year in maintenance costs.

CISCO SYSTEMS, INC., San Jose, California, **Customer Support Engineer**, 2002-2005. Created a process for minor releases for critical issues and achieved a 20% reduction in the number of outstanding customer issues. Reduced the turnaround time by 25% for critical customer cases. Achieved a 60% decrease in customer issues and won the CTM team "Build in Quality" Champions award.

CISCO SYSTEMS, INC., San Jose, California, **Test Engineer**, 2001-2002. Tested WAN switches and managed network resources for test teams. With Cisco Labs updates, achieved a 50% decrease in time to reproduce customer problems.

EDUCATION

CARNEGIE MELLON UNIVERSITY, Pittsburgh, Pennsylvania, **M.S., Software Management**

UNIVERSITY OF MISSOURI, Kansas City, Missouri, **M.S., Computer Science**

PUNE INSTITUTE OF COMPUTER TECHNOLOGY, Pune, India, **B.Eng., Computer Science**