

Sumeet Bajaj, PhD

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Profile

I am a dedicated Software Engineer with over seven years of experience in the IT and software industry, specializing in full-stack development, blockchain technology, and cloud computing. My expertise spans React, Angular, JavaScript, and backend development in Node.js. I am passionate about Web3, DeFi, and decentralized systems; I hold a Ph.D. in Information Technology, with my dissertation focused on a blockchain-based Personal Health Record (PHR) vault designed to enhance security, privacy, and patient-centered data management.

Key Skills

Programming Languages: Java, JavaScript (ES6), TypeScript, Solidity, C++

Front-End Development: Angular 16, NgRx, JavaScript, D3.js, Bootstrap, SASS, SCSS, Tailwind

Blockchain & Web3: Ethereum, Solidity, Smart Contracts, DeFi, IPFS, Hardhat, Truffle, PHRVault

Databases: SQL, MySQL, MongoDB

DevOps & Testing: Docker, Kubernetes, Jenkins, Terraform, Jest, Cypress, Enzyme, Bitbucket, Git, Jira, Confluence

Back-End Development: Node.js, Express.js

Security & Authentication: OAuth2, JWT, OpenID Connect, Zero Trust Security

Experience

Senior Software Engineer

Citigroup, Irving TX (12/2018 - Current)

Developed client-facing applications like **CD-Renewal**, **Security Center**, and **QR Login** using **Angular**, **NgRx**, **TypeScript**, and **Node.js**.

Built back-end components in **Node.js** for data processing and API services.

Integrated **AWS services** such as **Lambda**, **EC2**, **S3**, and **RDS** to build scalable cloud-based applications.

Collaborated with the Citi Integrated Digital Assets Platform (CIDAP) team to develop **Angular UI based solutions**, enhancing secure and efficient digital asset services.

Ensured **ADA compliance** using NVDA for accessibility testing.

Implemented end-to-end **automation testing** with **Cypress** for application reliability.

Designed and implemented customized data visualization graphs using **D3.js** and **Highcharts**.

Followed Test-Driven Development (TDD) with Jest, Enzyme, Jasmine, and Karma, achieving 80% test coverage.

Environment: AWS (Lambda, EC2, S3, RDS), Node.js, Git, Angular 18, Next.js, TypeScript, Jest, Jasmine, Karma, Cypress, Enzyme, Jenkins, Jira.

Software Engineer

PricewaterhouseCoopers PwC, Boston MA (06/2018 – 12/2018)

Developed a testing-based auditing application for iADAPT, utilizing **React**, **Redux**, and **Node.js**.

Integrated **Java Spring Boot APIs** with front-end applications to streamline business workflows.

Developed mobile applications using **React Native** for risk assessment and reconciliation modules.

Leveraged **Azure Cloud Services** for serverless functions, app services, and Cosmos DB to enable a scalable cloud-based architecture.

Environment: Azure (Azure Functions, App Services, Cosmos DB), Java, Spring Boot, React.js, React Native, Redux, Node.js, React Router, Jest, Enzyme, Git, Jenkins, Jira.

Software Engineer III

Siemens Healthineers, Norwood MA (12/2017 – 06/2018)

Developed user interfaces using **ReactJs**, **MobX** and **TypeScript** for healthcare applications.

Designed a prototype application for MET healthcare to run on tablets using **React Native & Java Spring** Boot backend.

Collaborated with business analysts to define content strategy, features, and API integration.

Environment: Java, Spring Boot, React.js, React Native, TypeScript, Flux, MobX, Jest, JSON, RESTful APIs, Git, Jira, Jenkins.

Education and Training

Ph.D. in Information Technology – University of Kentucky, Blockchain-Based PHR Systems (2025)

Master of Science in Computer Science – Governors State University, University Park, IL (2017)

Bachelor of Technology in Computer Science – ICAITech University, Dehradun, India (2014)

Projects

RWA Tokenization Prototype

Developed a blockchain-based Personal Health Record (PHR) vault as part of Ph.D. research.

Designed and deployed smart contracts on Ethereum using Solidity, leveraging ERC-721 (non-fungible tokens) to represent unique health records securely.

Implemented secure access controls, encryption mechanisms, and patient-centered data sharing.

Tech stack: Ethereum, Solidity, ERC-721, Web3.js, React.js, AWS.

Certifications

Certified Blockchain Expert™ – Blockchain Council

Certified JavaScript Developer I – Salesforce