Matthew C Brumagin

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Summary of Qualifications

Senior Software Engineer with over 10 years of professional experience in the full Software Development Lifecycle (SDLC) using Agile methodologies (Scrum/Kanban). Experienced engineer capable of leading the design and development of high-availability distributed systems, RESTful APIs, cloud-native CI/CD pipelines, and full-stack applications using modern frameworks. Proven ability to collaborate with stakeholders, architect scalable systems, mentor junior engineers, and drive technical excellence across the organization.

Professional Experience

Senior Software Engineer | Accusoft   Dec 2015 - Aug 2025

- Hosted cross-team products: Prizmdoc Viewer, PAS, OCR, barcode, and signing.
- Took ownership of and extended the cloud portal & admin React projects.
- Led the development of our Braintree e-commerce system for SaaS products.
- Supported multiple billing systems, with over ten thousand cloud accounts.
- Assisted with a company-wide Salesforce migration of over 40,000 accounts.
- Researched and implemented Redis, which reduced authorization time by 90%.
- Implemented Prometheus metrics, monitoring, and PagerDuty alerts.
- Cut deployment time in half by migrating to EKS/GitLab CI from Teamcity/EC2.
- Reduced infrastructure costs by 50% through migration to EKS architecture.
- Optimized our cloud service API test runs from 50 minutes to 5 minutes.
- Served as a cross-functional Engineer & Scrum Master for several years.
- Maintained dozens of other microservices, modules, tools, and integrations.

Software Engineer II | Greenway Health   Aug 2013 - Nov 2015

- Developed patient portals, EHR storage and display, and APIs using C#/.NET.
- Migrated over a million patient records for over 70,000 healthcare providers.
- Helped deliver a meaningful-use compliant system that passed HIPAA audits.
- Collaborated with offshore engineers on backend portal system implementation.

Technical Skills

Programming Languages
JavaScript, TypeScript, Python, C#, Java, Golang, Ruby, F#, Bash/Shell

Frameworks & Libraries
Node.js, React, React Native, Angular, Express, Mocha, Chai, Jest, Spring, JUnit, Django, Flask, Pytest, .NET Core, NUnit, xUnit

Cloud Platforms
Amazon Web Services (AWS): EKS, EC2, ECS, Fargate, Lambda, RDS, SQS, IAM, S3, ECR, ElastiCache, DynamoDB, CloudWatch, CloudFormation
Familiar with: Google Cloud Platform (GCP & GKE), Microsoft Azure

CI/CD, DevOps, & Orchestration
Terraform, Docker, Kubernetes, GitLab CI, GitHub Actions, Jenkins, Grafana, Prometheus

Databases & Storage
PostgreSQL, MySQL, Redis, MongoDB, Cassandra, DynamoDB

Personal Projects

Microservice Framework | github.com/mcbrumagin/yamf
- Monorepo with several smaller modules for server and client code.
- Zero dependencies at runtime; virtually immune to supply-chain attacks.
- Implements registry, gateway, routing, RPC, events, cache, and auth.
- Features a Python client that integrates seamlessly with Node.js registry.
- Comprehensive tests (90% coverage) with custom logging and multi-assertion.
- Dockerized multi-container example demonstrating distributed communication.

TheScene.FM | soundcl.one
- Built with my framework to showcase and extend real-world functionality.
- The website features playback with authenticated upload and in-app recording.
- Roadmap includes playlists, feeds, artist/venue profiles, and an event calendar.
- Handles audio streaming with S3 backup and Redis-like caching.
- Multi-container architecture with dedicated ffmpeg processing service.

Education

Bachelor of Science in Electrical Engineering | Minors in Software & Mathematics

Clarkson University | Class of 2013