

Gary Crye

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EXPERIENCE

System Architect

November 2021 – Present

BYU Office of Information Technology

Provo, UT

- Architected and assisted in implementing a successful university-wide transition from our self-hosted API manager, WSO2, to a cloud-native solution, Tyk
- Satisfied stakeholders by delivering minimum viable products on time, then iterating
- Defines technical practices and standards across the engineering organization
- Identifies appropriate technologies for proposed projects

Senior Software Engineer

April 2020 – November 2021

BYU Office of Information Technology

Provo, UT

- Spearheaded DevOps techniques that have been widely adopted, reducing deployment times for major services from 15 minutes to 5, while adding more functionality
- Created and maintained infrastructure-as-code templates, used as the basis for over 200 services
- Improved BYU's security posture by creating integrations with code scanning services, popularizing dependency management tools, and making automated continuous testing easy
- Established development standards, by negotiating with other teams and documenting decisions, that contributed to a 40% decrease in incident rates over the last 3 years

Software Engineer

April 2018 – April 2020

BYU Office of Information Technology

Provo, UT

- Implemented APIs to provide core university services, while consistently meeting deadlines
- Averaged 80-90% code coverage in unit tests, along with comprehensive integration test suites
- Supported other developers as they deployed to an evolving tech stack consisting of EC2, Elastic Beanstalk, Lambda, ECS, DynamoDB, ElastiCache, RDS, S3, CodePipeline, and more

Computer Programmer (part-time)

August 2016 – April 2018

BYU Office of Information Technology

Provo, UT

- Implemented RESTful APIs, defined by OpenAPI documents, in Node.js

EDUCATION

BRIGHAM YOUNG UNIVERSITY

B.S., Computer Science with a minor in Mathematics

CERTIFICATION

AWS Solutions Architect – Professional

(ISC)² Certified Information Systems Security Professional (CISSP)

HashiCorp Terraform Associate

OpenJS Node.js Application Developer & OpenJS Node.js Services Developer