

ARMOND LUTHENS

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EXPERIENCE

DigniFi - Remote/Boulder, CO
Lead Senior Software Engineer
Senior Software Engineer

January 2022 - Present
April 2021 - January 2022

Responsible for leading complete architectural redesign of legacy monolithic Rails application to a (primarily Java) EKS microservice architecture. Primary focuses included designing architecture around core business domains in order to scale both the application and the business (via engineering org growth). Core competencies for migrating to a microservice ecosystem without any disruption to legacy application required domain expertise in several layers of both infrastructure and application layer (code) including, API gateway and network configuration (AWS API GW), global authentication/local AuthZ, Kubernetes container orchestration (EKS/Docker), microservice deployment pipelines (Github Actions), and all underlying application code (Python lambdas, Spring Boot applications, etc.).

After successfully building the foundational infrastructure and shifting the architectural design of all the company's technology onto a microservice based architecture, focus shifted to concentrate on completely rebuilding DigniFi's consumer lending portal, which required balancing not only technical design considerations, but also understanding and adhering to key risk management and regulatory/compliance considerations. Key accomplishments (building, deploying, owning and maintaining) in this domain include but are not limited to, building DigniFi's proprietary underwriting model, the entire DigniFi underwriting engine and identity verification system, DigniFi's flagship consumer product, *Prequalification*, DigniFi's partner API layer for direct B2B API integrations, as well several adjacent consumer credit products. Reengineering DigniFi's consumer lending portal has resulted in significant cost savings, drastically improved performance and stability (resulting in increased consumer satisfaction and merchant adoption), and diversification into new verticals to increase company revenue.

Trimble SketchUp - Boulder, CO
Software Engineer

April 2018 - April 2021

Responsible for working in an Agile setting to develop new features and improving performance for SketchUp's Warehouse Platform to service tens of thousands of active daily users. Most development is done using Java (Spring/Hibernate) and AWS' suite of tools. Primary duties include writing java code with a focus on scalability and database performance, integrating new features with Elasticsearch, frequently deploying new code to production, and writing tests (Unit, Persistence, Automation) to ensure stability and mitigate regressions. Notable accomplishments include architecting and implementing an exclusive API to allow streamlined integration with new and existing 3rd party consumers, optimizing database to safely patch heavy write traffic tables without downtime or site degradation, and designing a pipeline from Amazon Redshift to a MySQL database to offload analytics data where possible to decrease CPU usage.

QCI (Quality Consulting Inc.) - Des Moines, IA

January 2017 - April 2018

Full Stack Software Engineer

Responsibilities included full stack software development, requirements gathering, and consulting directly with clients to deliver custom software solutions. Developed using an Agile process. Worked primarily with MVC .NET framework using technologies including C#, Entity Framework, and Linq. Frontend development included JavaScript and TypeScript using Angular2. Notable projects included a multilingual international career planning application for Kuder, Inc. and integrating a learning management system into an internal web application for Pioneer Hi Bred International.

University of Iowa Physics Department

August 2015 - December 2016

Student Software Engineer

Worked directly with University of Iowa Researchers on NASA's Juice Mission to develop an interactive web application to manage purchase orders, inventory, and part constraints for assembling circuitry critical to mission. Implemented the service layer with Java with a MYSQL database and client side code with Bootstrap.

EDUCATION

University of Iowa

Bachelor of Science in Engineering: Electrical & Computer Engineering

Minor: Computer Science | **Certificate:** Technical Entrepreneurship | **GPA:** 3.43

SKILLS

Software Development: Java (Spring & Hibernate), Python (Lambda, Flask), Ruby on Rails

Infrastructure: AWS Ecosystem (EKS, Lambda, SNS/SQS, API Gateway, EC2, RDS, etc.)

Tools & Technologies: Github Actions (CI/CD Pipelines), Gradle, Docker, Datadog, Argo, K9s