

Professional Summary

Senior engineer with over 5 years of professional experience in Full-stack development using React, Node.js, Python, and Docker within cloud platforms such as AWS in both financial and construction industries. Certified expertise in building and deploying custom solutions in AWS that meet various customer needs. Proven expertise in building and refactoring highly-scalable and user-friendly software solutions.

- Experience in creating responsive and user-friendly user interfaces in React and Vue.js.
- Extensive experience in handling IaC pipelines such as AWS CloudFormation.
- Extensive experience with Test-Driven Development.
- Extensive experience with Pair and Mob Programming.
- Experience with resolving critical production issues with minimal turnaround time.
- Experience securing existing cloud solutions.
- Experience in leading both small and large scale teams.
- Professional collaborative skills between developers and business stakeholders.

Technical Skills

- **Languages:** Python, JavaScript/TypeScript, Java, C/C++, Bash
- **Frameworks:** Terraform, Kubernetes, TailwindCSS, Material UI
- **Web Technologies:** React, React Native, Vue, JavaScript, TypeScript, Web API
- **Cloud:** AWS (Computing, Storage, Databases, IaC, and various other services)
- **Database:** PostgreSQL, DynamoDB
- **Version Control:** GitHub, GitLab, Bitbucket
- **Other:** Visual Studio Code, Vim, Postman, Microsoft Office Suite, Confluence

Certifications

- AWS Solutions Architect – Professional | Spring 2023
- AWS DevOps Engineer – Professional | Spring 2023

Professional Experience

Freelance Software Development | West Des Moines, Iowa

2018–2021

- Worked with local businesses of varying sizes to develop and maintain web apps.

Source Allies | Urbandale, IA

2021–Present

Software Engineer & Consultant

- Test-Drove all development.
- All development was operated in an Agile environment.
- Organized and assisted in several company social events.

AgPoint

May 2021 – January 2022

- Managed authentication in both mobile and web applications.

- Maintained CI/CD pipelines for various technology stacks.
- Solely completed application UI/UX design overhaul.
- Test-Drove all development.

Technology: React Native, Node.JS, JavaScript, bitrise.io (CI/CD), John Deere API, OAuth2

Roofing Industry Work-Order Web-App

July 2021–September 2021

- Lead small team of junior engineers.
- Developed strong relationship with client to imagine and build Vue.js single-page web-application in which work-orders are completed by construction workers.
- Communicated with client to manage API design changes that impacted this application among others.
- Test-Drove all development.
- Participated in daily stand-up and safe-agile activities.

Technology: Vue.js, Node.js, JavaScript, AWS, GitHub Actions

Financial Web-App

February 2022–October 2022

- Lead large team of engineers.
- Joined the project halfway through development and quickly became the team lead.
- Overhauled design choices that were halting the project development.
- Utilized containerization to deploy high-scale API.
- Test-Drove all development.
- Acknowledged and removed unnecessary cloud costs, saving the client thousands of dollars each month.

Technology: Node.js, TypeScript, Jenkins, PostgreSQL, Docker, AWS (EKS, CloudFront, S3, CloudFormation)

Actuarial Modernization Automation

July 2021–Present

- Architected AWS services within a fortune 500 financial company.
- Re-architected an existing serverless microservice-based architecture within AWS.
- Guided varying development teams with AWS technologies.
- Acknowledged and enforced new security standards within the client's AWS development process.
- Acknowledged and removed unnecessary cloud costs, saving the client thousands of dollars each month.

Technology: Python, Docker, AWS (S3, Lambda, Kinesis, Dynamo, CloudFormation), GitHub Actions

Freelance work | West Des Moines, IA

2021–Present

Software Engineer & Web Developer

US Cellular

November 2018 – August 2019

- Developed a prototype internal web-application initially based on WordPress.
- Contracted work out of a high-school school-to-work program.
- Developed a strong relationship with the product owners.
- Lead a team of junior engineers to leverage PHP/JavaScript to build custom plugins for WordPress.

View more information about these projects, certifications, and more at [cal-overflow.dev](https://caloverflow.dev).

Technology: PHP, MySQL, JavaScript

Roxy Seven Salon

September 2018

- Collaborated with a local hair salon to develop a website to promote the business online.
- Single-handedly migrated WordPress website to stable Vue.js website.
- Developed a strong relationship with the business owner.

Technology: Node.js, Vue.js, TailwindCSS

Projects

Serverless Security System

Present

- Designed a serverless, cloud-based security system for personal use.
- Architected Cloud resources for complex system solution
- Designed user-friendly frontend using JavaScript and Vue.js.
- Designed serverless backend architecture using Python and AWS serverless resources.
- Developed custom IoT software using Python to stream data into cloud-based backend.

Technology: Python, JavaScript, Vue.js, AWS (IAM, Lambda, API Gateway, Dynamo, S3, CloudFront)

Memory Downloader | downloadmysnapchatmemories.com

2021-2022

- Developed a desktop application that automates downloading all Snapchat memories.
- Leveraged the public Snapchat API for pulling photo/video data for the authenticated user.
- The application has been downloaded thousands of times.

Technology: JavaScript, Node.js, Electron, GitHub Actions, AWS (S3, CloudFront, Route53)

Pac-Man Overflow

2021

- Designed a web-based multiplayer Pac-Man clone game.
- Test-drove JavaScript development of Pac-Man game engine.
- Bandai Namco acknowledged the game as a "playable version of Pac-Man."

Technology: JavaScript, Node.js, Express.js, Socket.io, AWS (EC2, CloudFront, Route53)

Education

Iowa State University | Ames, IA | 3.41 GPA

2019-2023

College of Liberal Arts and Sciences | Computer Science Major | 3 semesters on Deans List

Cloud Club | Iowa State University

Founder & President | 2022

- Created club in place of missing cloud-related courses.
- Taught basic cloud concepts and arranged hands-on AWS activities.