Caleb Van Lue

Indiana (willing to relocate) | 260.338.3440 | vanluecaleb@icloud.com | calebvanlue.com

Results-driven Software Engineer with 3 years of experience in designing, implementing, testing, and delivering scalable solutions. Skilled in cloud services, mobile and web applications, and data stream processing. Strong track record of improving system efficiency and streamlining workflows, primarily in logistics and warehouse management. Passionate about building reliable, impactful software.

Professional Experience

Software Engineer | Ferguson | Fort Wayne, IN | 2025

- Collaborate with cross-functional teams to develop public-facing websites, data administration tools, and dynamic APIs serving Ferguson's diverse client base
- Build and maintain scalable web services that handle complex business requirements across multiple product lines
- Develop custom data migration scripts with conditional logic to ensure reliable data replication between environments
- **Technologies**: Next.js, Tailwind CSS, NestJS, TypeScript, PostgreSQL, WordPress, Railway, GraphQL, Google Cloud

Software Engineer | Sweetwater Sound | Fort Wayne, IN | 2022 – 2024

- Designed, developed, and deployed cloud- and mobile-based logistics tools via MDM and cloud solutions (Kubernetes, GCP)
  - Reduced redundancy in warehouse pick routing, improving associate travel times by 35%
  - Implemented failsafe systems around critical workflows, reducing incident recovery time and automating that recovery where possible
  - Led efforts to optimize database schema across cloud and on-prem storage, reducing query execution times by up to 90%
- Built and maintained ~15 scalable REST APIs and applications leveraging modern technologies (React, Vue, Kotlin) for critical distribution workflows
- Provided feedback and suggestions to engineers in the form of code reviews and pairing sessions, standardizing and documenting practices to reduce code variability
- Collaborated with team and business leaders in agile sprint cycles to gather requirements, receive feedback, and ensure timely delivery of the requested solutions
- **Technologies**: NestJS, TypeScript, PostgreSQL, ASP.NET, C#, Vue.js, Apache Kafka, SwiftUI, Jetpack Compose, Google Cloud

Teaching Assistant | Ball State University | Muncie, IN | 2020 – 2021

- Mentored 50+ students in mastering core software engineering principles, with a focus on object-oriented programming (OOP) and algorithm design
- Enhanced curriculum by collaborating with students and faculty to gather the most effective practices and expand upon them, improving student retention and course satisfaction

Education

B.S. in Computer Science | Ball State University | Muncie, IN | May 2022

- Summa Cum Laude – 3.95 GPA
- Relevant coursework: Software Engineering, Data Structures, Algorithms, Programming Languages, Networking, Cloud Computing, Discrete Structures

Key Projects

- Sweetwater Arizona Distribution Center – AZDC
  - Contributed to the decommission of a monolithic proprietary web service in favor of workflow-specific microservices, better supporting distribution center operations and reducing spin-up time by months
  - Launched ~12 web microservices across various modern technologies (NestJS, ASP.NET) to support the warehouses, significantly reducing query execution times and deadlock instances
- iOS to Android Migration
  - Responsible for testing software development kits from potential device providers to evaluate which devices best suit the needs of the company, contributing heavily to those discussions
  - Contributed to many of the workflows implemented before my departure, improving user efficiency compared to iOS counterpart by up to 50%
- Inventory Allocation Data Pipelines
  - Created and supported multiple data pipelines via tools like Apache Kafka and KafkaJS to handle realtime processing of inventory allocation data
  - Reduced inventory information delay by ~30%, allowing the business to make more informed decisions about labor and purchase orders
- Harness to GitLab Helm Migration
  - Supported the conversion of CI/CD pipelines from Harness to privately hosted GitLab Helm for consolidation and improved scalability
  - Converted pipelines for ~10 services to ensure that functionality is maintained across providers