Samuel Elijah Ellsworth

Provo, UT · github.com/bentalizac · Valoren.click

EDUCATION

Brigham Young University Provo, UT
Bachelor of Science in Computer Science 2022 – April 2026 GPA: 3.56 (Cumulative)
Minors: Ballroom Dance, Entrepreneurship

Richland Collegiate High School Richardson, TX
Associate of Science (Dual Enrollment) August 2016 – April 2018 GPA: 3.77

EXPERIENCE

Technical Intern June 2026 – Present
FamilySearch – RootsTech Team, UT, Remote

- Automated a manual cross-organization handoff of translated content across three Spring Boot services and a Lambda, extracting a metadata service and building a localstack dev environment with per-scenario fixtures to exercise the full event path offline
- Designed and built AI agent tooling that generates architecture, security, and runbook documentation from source and syncs it to Confluence on every merge, now 25 skills and 112 scripts across a five-plugin suite
- Integrated video-processing Lambdas with a central status API, designing telemetry writes to fail open so observability could never break the pipeline
- Fixed a P1 race condition allowing duplicate event registrations, adding a shared conflict guard returning 409 without breaking downstream marketing fan-out
- Migrated logging to Dynatrace dual-publish across five Spring Boot services, converting roughly 300 call sites to structured key-value fields in the largest and standardizing field names so one identity could not split across two keys

Founding Engineer August 2025 – Present
DanceNote – Pre-launch startup (BYU Sandbox Program), now a side project, Remote

- Developed deployment infrastructure using AWS, Cloudflare, Docker, and self-hosted services
- Designed and implemented backend REST APIs using FastAPI and Python for a dance coaching platform

Warehouse Management Technician – Student Lead September 2022 – April 2026
BYU IT Surplus, Provo, UT

- Trained fifteen-plus new employees across technical and operational tasks; participated in hiring interviews and provided candidate evaluations
- Built a cross-platform Go/Wails desktop tool that automates hardware spec collection and label printing, saving ~2 hours daily across up to 70+ devices processed per day

PROJECTS

DanceNote *Python, FastAPI, PostgreSQL, Flutter, Dart, React, TypeScript, Docker, Grafana, Cloudflare, MinIO*

- Built a cross-platform Flutter client with video upload, async job tracking, group and session management, and JWT authentication
- Containerized all services with Docker and configured Grafana dashboards for backend observability and metrics

Ballroom Dance Competition Platform *TypeScript, Next.js, tRPC*

- Built a type-safe API layer with tRPC connecting the Next.js frontend and backend

SKILLS

Languages: TypeScript, JavaScript, Python, Java, Go, Dart
Frameworks & Libraries: React, Next.js, Spring Boot, FastAPI, Flutter, tRPC, SQLAlchemy, Alembic, Vite, Spring Security, Wails
Databases: PostgreSQL, DynamoDB
Cloud & Infrastructure: AWS, Lambda, S3, SNS, SQS, EC2, ECS, CloudFormation, CloudFront, IAM, Amplify, Elastic Beanstalk, Cloudflare, MinIO
Tools & Practices: Git, Docker, CI/CD, GitHub Actions, Linux, Agile/Scrum, Code Review, OpenAPI, GraphQL, Maven, Grafana, Dynatrace, Splunk, SonarQube