

# JONATHAN BAYLESS

Full Stack Software Engineer

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## WORK EXPERIENCE

### CURATIVE

Senior Software Engineer, Tech Lead | Aug 2021 - Present

- Tech lead for a team of 6 engineers, owning project planning, backend architecture, and code quality
- Built a scalable Open Enrollment processing pipeline, replacing a costly vendor with an in-house system that enabled exponential membership growth
- Designed async backend platforms using Temporal, AWS Lambda, SNS, and SQS to scale healthcare systems under increasing load
- Led integrations for healthcare data, claims, and member communications, including a serverless HIPAA-compliant claims pipeline scaling to 100k+ claims/month
- Selected as 1 of 3 engineers to lead a company pivot to health insurance and migration to a Kotlin backend
- Delivered algorithmic solutions in regulated healthcare environments, including PCR lab drift correction to reduce false positives
- Drove adoption of Kanban, mentored junior engineers, and improved team velocity through better prioritization

**Skills:** Kotlin (Micronaut, Gradle), Python (Flask), Typescript (React, Next.js), Temporal, Postgres, AWS, Docker, Terraform, Celery

### CARRIER

Embedded Software Engineer, Scrum Master | May 2019 - Aug 2021

- Led development of a shared C++ platform across thermostat and HVAC product lines
- Designed a distributed state management system for IoT devices by porting Redux concepts to embedded C++
- Served as Scrum Master, planning and budgeting a \$10M+, 3-year, cross-team product initiative
- Delivered on-time Wall Control support for a flagship Heat Pump product
- Led team transition to Git, AWS, and Atlassian tools, modernizing development workflows

**Skills:** C++, C, C#, Python, Mathworks Simulink, VBA, Jira, IBM Rational (DOORS), Linux, CMake, Git, AWS, Microsoft Project

### BOEING

Software Infrastructure and Tools Intern | May 2018 - Aug 2018

Revamped RTOS performance analysis tool to prevent mission-affecting overframing and handle multithreading

### ROLLS-ROYCE

Electrical Test Equipment Intern | May 2016 - Aug 2016, May 2017 - Aug 2017

Designed a new controls algorithm that improved turbine performance over PID and was submitted for a patent

## EDUCATION

### PURDUE UNIVERSITY

Bachelors of Science in Electrical Engineering | May 2019

### PROJECT MANAGEMENT INSTITUTE

PMI-ACP (Agile Certified Practitioner) | Feb 2020