Sean Krail

sean@krail.dev | https://seankrail.dev/

Customer-centric backend software engineer passionate about leveraging expertise in end-to-end software development life cycles to create innovative solutions and deliver exceptional user experiences.

EXPERIENCE

Amazon

Software Development Engineer | July 2020 – Present

- Tech Lead, guiding and mentoring fellow engineers; collaborating closely with program and product managers and external development teams; and fostering an inclusive culture of innovation and continuous improvement in software development and operation processes.
- Own end-to-end software development life cycles for systems addressing pay defects for over 2MM hourly employees. Deliver both fully automated solutions and employee self-service options, resulting in a total of over $100MM in YoY cost savings.
- Design, develop, and operate numerous distributed, AWS-hosted microservices, including latency-critical request-reply servers for customer-facing features with API Gateway and Fargate ECS; and event-driven, asynchronous backend processors using DynamoDB, Kinesis, SNS, SQS, and Lambda.
- Proposed and led a 3-day hackathon project, implementing a machine learning model to predict missed punch time from employee work activity data. This helped to jumpstart a product initiative that went into production, replacing our rule-based missed punch recommender and improving our recommendation rate by 720 basis points (bps) and employee acceptance rate by 948 bps.

Jitterbit

Software Engineer | March 2017 – July 2020

Solutions Engineer | June 2016 – February 2017

- Lead engineer for modernizing the cloud infrastructure and adopting DevOps culture and best practices, increasing the server uptime SLA from 99.5% to 99.99%.
- Full stack development of the next generation of the integration platform with modern technologies like TypeScript, Angular, React, Node.js, Redis, DynamoDB, and Functions as a Service.
- Ideated, developed, and managed the “Docker Agent” along with a Helm chart allowing customers and internal teams to run the on-premise agent in a portable, declarative way in a container orchestration tool like Kubernetes. Worked with customers and internal teams to further develop features for the product.

EDUCATION

University of Delaware | 2012 – 2016

Bachelor of Science in Computer Engineering; minors in Computer Science and Mathematics