

I am a back-end software engineer especially interested in building high availability web services, scaling them up, and writing performant software.

Work Experience

Software Development Engineer II **Expedia Group** **Oct 2022–Present**
Payments team Seattle, WA

- Implemented features for high availability web applications by coding **REST** and **GRPC** apis in **Java** and **Kotlin**.
- Performed root cause analysis on an incident with production payment services to find a solution which led to over \$100,000s in savings
- Migrated critical payments service to Expedia's Kubernetes cluster, minimizing downtime and advancing Expedia initiative towards a unified cloud architecture.
- Designed and Implemented the process to automate the re-encryption process for securing customers' sensitive payment data, ensuring adherence to PCI compliance standards using **Python** and **Kotlin**.
- Monitored and maintained deployed web services, using Kubernetes, DataDog, and Splunk to complete deployments safely and as part of an on-call rotation.

Software Development Engineer I **Expedia Group** **2021–2022**
Activities team Seattle, WA

- Developed integration with new third party API that will account for over 100,000 products in expedia activities, as the primary developer of the project, using Java and AWS Lambda.
- Collaborated with external teams to understand and communicate requirements of new features.
- Quickly ramped up on a lambda and SQS project to add a feature within a week of starting.

Security Software Engineer Intern **Bottomline Technologies** **Summer 2020**
HealthCare Team Portsmouth, NH

- Created parts of healthcare solution to protect patient data from fraudulent activity by working as part of a Agile team.
- Launched a recurring task that tracks patient and worker creations and modifications over time to create statistical models using Spring Batch.
- Designed several data models to track patient diagnosis with Spring Hibernate and Java.

Software Developer Intern **Jazz History Database at WPI** **2020-2021**
Worcester, MA

- Curated and Constructed unique web pages to display Jazz musicians and their work by coding in **HTML/CSS/Javascript** and understanding requirements and constraints of the non-technical website director.

Education

- **B.Sc. Computer Science**, Worcester Polytechnic Institute. **2017–2021**

Technologies and Languages

- Languages: Java, Kotlin, C#, Python, SQL
- Technologies: DynamoDB, Dynamodb, AWS, Git, Docker, Kubernetes, Spinnaker, DataDog, Splunk
- Frameworks: Spring, .Net, React, UWP

Projects

- **Black Desert Companion Application:** A companion app made for a popular video game Black Desert Online. Accumulated over 3000 downloads on Xbox and PC through the microsoft store. It was developed in UWP using C#. See the source on [Github](#).
- **TipTop.sale** - A simple ecommerce store written in React and Javascript utilizing the stripe API to sell cute funny clothing. [tiptop.sale](#)