

# MICHAEL LATMAN

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## EXPERIENCE

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### Amazon Web Services

*Software Engineer II*

Baltimore, Maryland

Jan 2020 - Apr 2021; Apr 2022 - Present

- Prototyped, designed, and deployed an AuthZ library which modifies UI behavior based on user authorizations using React and TypeScript across four physical security domains
- Led a team to develop of the Java authorization library used to secure access to 100% of AWS data centers. Transitioned nine internal services with zero downtime, achieving \$1 million in annual cost savings over the previous solution
- Served as leader of the UI/UX Guild, guiding 10+ frontend-focused engineers in UI/UX best practices and facilitating constructive wireframe critiques
- Wrote the security software organization's API standards, led API reviews, and held twice-weekly office hours
- Created 15+ automations in Python for common on-call operations, saving 11 hours of dev time per week
- Built a Slack bot that summarized incoming high-severity tickets using Claude 3 Sonnet
- Led application security reviews as a certified AWS Security Guardian for the organization
- Regularly interviewed internal customers and users to understand and serve as a voice of their needs at planning meetings
- Prototyped and developed a shared CDK construct (that deploys OpenSearch Serverless collections, CloudWatch alarms and dashboards, and DynamoDB indexing pipelines), reducing the amount of time needed to deploy OpenSearch from days to hours

### Olive AI

*Senior Software Engineer - Ventures*

Remote

Apr 2021 - Apr 2022

- Led a team of four engineers to build a TypeScript phone tree system with fuzzy search for call center agents at three hospitals. This system helped agents locate hospital resources without needing to switch browser tabs, resulting in a 21% reduction in average call length
- Developed an engineering excellence guide on best practice for seed-stage startups
- Provisioned and managed AWS Accounts, GitHub Actions CI/CD pipelines, and led code reviews for five portfolio companies
- Built a macOS menu bar application in Python for employee time mapping which fed data into a model to identify bottlenecks in hospital processes. Successfully identified one candidate for automation during a small-scale pilot
- Rapidly prototyped products in design sprints to validate product-market fit with a panel of potential customers

### Alliance Data

*Software Engineer*

Baltimore, Maryland

Jan 2019 - Jan 2020

- Worked on the Emerging Payments team to develop credit card products for brand partners
- Built an ad server in Kotlin that leveraged Mustache templates to generate context-aware ads on brand partners' websites with sub-100 millisecond latency
- Designed and implemented a centralized Kotlin Spring Security service that facilitated human logins and API authentication for three products
- Created a generic system for implementing Kotlin Spring services that reduced boilerplate code by 72%
- Diagnosed and fixed production service issues and wrote unit and integration tests for Kotlin using JUnit and MockK

### Blispay

*Software Engineer*

Baltimore, Maryland

Jun 2018 - Jan 2019

- Worked with the product team to create a data model for storing and retrieving customer data, using Java and PostgreSQL, to allow non-technical teams to analyze customer behavior from multiple perspectives

- Maintained a batch orchestration framework written in Python that processed data dumps from the system of record and ingested them into a data lake
- Identified customer-impacting system failures and rapidly developed and released fixes for the production React web application

## **Syncrobits**

*Founder*

Baltimore, Maryland

Feb 2017 - Jun 2018

- Assembled a team of three programmers to develop iOS and Android applications using Swift and Java
- Led product and engineering efforts to deploy Android and iOS apps for clients, including a point-of-sale application that facilitated over a million credit card transactions for the Maryland State Fair
- Managed billing and project management for 10 individual contracts

## SKILLS

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Programming & Web: JavaScript, TypeScript, React, Python, Java, Kotlin, Swift, HTML, CSS, Bash  
Tools & Platforms: AWS, GitHub, Google Cloud, Firebase

## PROJECTS

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### **Home Control for Rabbit R1** *Node, TypeScript, Home Assistant, Shortcuts, OpenAI GPT*

A third-party service for the Rabbit R1 that enables users to control smart home devices and set reminders from their devices in natural language

### **TesPlayer** *React, TypeScript, Firebase, Spotify API*

A Spotify UI written for Tesla vehicles built with React and TypeScript

## RECOGNITION

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### **First Place - Security "Capture The Flag"**

Kaizen CTF - Booz Allen Hamilton

Competed to analyze, reveal, and exploit security flaws to gain points. Placed 1st within Loyola University, and 18th against all other competing students

Nov 2016

### **Hauber Summer Research Fellowship**

Loyola University Maryland

Awarded a grant to conduct research on improving the accuracy of natural language processing software  
Summer 2016

## EDUCATION

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### **Loyola University Maryland**

Bachelor of Science Computer Science

Baltimore, Maryland

Sep 2014 - May 2018