

# Matthew McKay

301-244-9523  
mattmckayj@gmail.com  
matthewjmckay.com

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## Experience

- June 2022 – Present **Lead Software Engineer, Westbold, Seattle, WA.**
- o Led redesign and rearchitecture of a phone subscription service to simplify the renewal process, reducing both developer overhead and eliminating almost all related support requests.
  - o Designed a new data model to combine multiple phone rental services, which removed the overhead of running two different production systems, each with their own tooling and APIs.
  - o Directed and worked with the team in migrating to that data model, with no impact to users.
  - o Set up automated processes for testing, building, and deployment that reduced our production deploy time from 8 minutes to a matter of seconds.
- April 2020 – May 2022 **Senior & Lead Software Engineer, Varsity Tutors, Seattle, WA.**
- o Owned continued development of product catalog service. This included building catalog search on ElasticSearch, as well as updating the metadata structure to support new business needs.
  - o Enacted shared library practices across teams to prevent duplicate client code.
  - o Designed and led team in implementation of an e-commerce cart for sales reps and customers to excellent positive feedback, reducing checkout times for bundles by 50%.
  - o Implemented a service for tracking and renewing thousands of customer tutoring subscriptions, saving our support team dozens of hours a week in manual effort.
- July 2014 – April 2020 **Software Development Engineer I & II, Amazon.com, Inc., Seattle, WA.**
- o Supply Chain Optimization Technology, Topology Team
    - Designed, implemented, and released a full-stack AWS service for running high level models of Amazon's warehouse network, converting a slow, manual process into a few clicks in a UI.
  - o Consumer Engagement, Sonar Team - Owners of Email Generation and Sending
    - Maintained and optimized the service that populated data for millions of daily customer notifications from Amazon, and built a query language and throttling for it. This enabled non-developers to enrich their messages without impacting our dependencies.
    - Migrated email metadata systems to a new AWS stack from a legacy setup, speeding up page loads from several seconds to less than a second.
    - Mentored a junior engineer through the design and implementation of email campaign search using Elasticsearch, which added new search options and made queries nearly instant.
- Summer 2013 **Software Engineering Intern, Shopkick, Redwood City, CA.**
- o Implemented e-commerce features to enable purchases in mobile apps as well as backend server support for processing transactions. Released to customers with positive feedback.
- Summer 2012 **Software Engineering Intern, Google, Mountain View, CA.**
- o Implemented advanced search features in the YouTube Video Manager.
  - o Built and released a new Creator Dashboard homepage with customizable widgets.

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## Education

- 2010 – 2014 **Carnegie Mellon University, Pittsburgh, PA.**
- o Bachelor of Science in Computer Science (Minor in Mathematics), *GPA: 3.97*

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## Technical Skills

- Languages Go, C#, Java, Python, Javascript
- Software Git, Serverless, Postgres, Terraform, Linux, Vim
- AWS Services DynamoDB, S3, Lambda, SQS, CloudFormation, API Gateway