

Isaiah Yoon

Work Experience

Earnin – Backend Software Engineer, Bank Connection Team *September 2017 – Present*

- Developed with C#, used agile-like methodologies to meet weekly sprints and quarterly goals
- Collaborated with team through paired programming and paired code review sessions to write robust, well-tested code
- Monitored daily deploys to production with Jenkins and an array of analysis tools (Periscope, Logentries, Kibana)
- Performed ops duty responsibilities on rotation, addressing backend anomalies relevant to the bank connection domain

SCS Noonan Scholars Summer Academy @ USC – Computer Science Teaching Assistant *June 2017 – August 2017*

- Used Java and Eclipse to teach computer science to 19 rising undergraduates
- Lead labs and project-based coursework, including a GUI Hangman implementation and hashed password authentication
- Analyzed student performance and feedback to build a more effective curriculum

UC Berkeley College of Environmental Design - Computer Resource Assistant (Work-study) *April 2014 – May 2017*

- Used Excel and VBA scripts to implement transaction system for college's architecture materials store
- Automated inventory updates and receipt emailing during the checkout process
- Gathered feedback from cashiers and managers to fix bugs, implement feature requests, and improve UI
- Used in production August 2015, and logged more than 1500 transactions by time of graduation

Projects

Redis Cache Utility - Earnin *April 2018 – June 2018*

- Built a utility for cache-first data access, checking a local cache then a Redis cache, then falling back on a modular function
- Refactored an IP to hostname resolver to use cached data, calling a built-in DNS utility as fallback
- Refactored an expensive bank query involving multiple joins to prefer cached data, reducing round-trip time 2.5x

Quovo Integration - Earnin *January 2018 – April 2018*

- Contributed primarily to building out the bank connection flow to retrieve bank data using the Quovo API
- Used code-first migrations to create/update database tables, added logic for CRUD operations on relevant database data
- Built infrastructure for AB-testing, with customizable configurations for tuning percentages at bank granularity
- Analyzed logs and ran queries once deployed to production, making patches for edge cases
- Used success metrics to compare cost savings relative to alternate bank data providers – saved millions of dollars

Monolith to Microservices Migration - Earnin *September 2017 – December 2017*

- Optimized query performance and split cross-domain joins while migrating from Microsoft SQL Server to Amazon Aurora
- Redesigned RESTful APIs for internal bank connection service using OpenAPI & C#, for usage by other services

Education

University of California, Berkeley - Berkeley, CA *August 2013 - May 2017*

B.A. Computer Science and Cognitive Science, GPA 3.5

Coursework: data structures, algorithms, computer architecture, discrete math, probability theory, networks, security, artificial intelligence, databases, product management

Skills

- **Languages:** Java, C#, Python, HTML, CSS, JavaScript
- **Technologies:** Git, Rider, Visual Studio, MySQL, .NET, Ruby on Rails, Redis, AWS, Jenkins, JSON, XML, Tetris
- **Development practices:** agile, test driven development, paired programming, continuous integration/deployment