**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, metrics, and queries once deployed to production, making patches for edge cases

**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