Yiming **Peng**

SOFTWARE DEVELOPMENT ENGINEER

1823 Terry Ave, Seattle, WA, 98101

☐ (+1) 413-801-8072 | ✉ ymp.sea@gmail.com | ⌂ http://yimingpeng.com/ | ⌊in⌋ pengyiming

Skills

Programming Language	Java, Java Servlets, JUnit, Spring Framework; Python, Ruby, C, C++; JSON, XML
Builder Tools	Git; Linux; IntelliJ IDEA, Eclipse, Sublime Text, iTerm, Vim; MySQL, Hibernate; VirtualBox; Matlab
AWS Applications	AWS CLI, SNS, SQS, Lambda, CloudWatch, DynamoDB, SWF, S3, IAM, EC2
Strength Areas	Cloud Computing, Large-Scale Distributed Platform

Experience

Amazon Web Services, Inc. *Seattle, WA*

AWS PAYMENTS, SOFTWARE DEVELOPMENT ENGINEER *Mar. 2016 - Present*

- Company-Wide Project: Configurable Region Payments for EMEA
  - Participated in project scoping, design, planning across 18 core teams, wrote design document for components owned by team
  - Independently designed and rebuilt payments messaging system, which is based on SNS/SQS, to make it smart enough to handle required complex business scenarios
  - Researched best practice for queue based service's testing, expanded system's test framework by improving 41% test coverage
  - Enhanced system's logging mechanism, followed up periodically end-to-end testing to make sure behaviors as expected
  - Utilized FeatureFlag based on DynamoDB to make changes backwards compatible before launch

- Team Project: Build Next Generation Payments Datastore
  - Led project scoping, design, cooperated with TPM to come up with phased milestones to make sure project delivery on time
  - Dove deep customer use cases, transactions requirements for managing data, data retention requirements and access patterns to understand high-priority and low-priority requirements for new datastore
  - Cooperated with DynamoDB Team's Consultant and a SDE II, designed and built up new DynamoDB table schema, data model, service model, expanded legacy data relations, resolved GSI limitation problems to support required indexing features
  - Launched a CRUD service based on new datastore as data authority, which is targeting to scale up 10x TPS for monthly data generation

- Intern Mentor Project: Automated Alerts for Missing Payment Instruments
  - This project was designed as a summer intern project to optimize the invoicing orchestration process for AWS customers whose account not associated with valid payment instruments(PI)
  - Served as team's intern mentor, scoped and high level designed project, proposed phased goals for Intern candidate
  - Coached candidate to accomplish phased goals, helped troubleshooting and followed up weekly to keep the project on track
  - Launched the project, which helped around 200 customers got notified at first time for their invalid PI, also significantly reduces team operational burden, minimizes customer service effort and provides better customer experience

- Team Project: Build Gateway Service for Clients' Reads
  - This project was to build a gateway service which exposed clean and stable APIs for non-payments team clients, expanded legacy data relations to support more customer feature requests
  - Worked with a SDE II, dove deep legacy internal services functionalities and data models, designed a new business model to reconcile the differences
  - Independently built up a new java service from scratch, including proxies, mappers, providers, APIs, unit tests, integration tests, and functional tests
  - Proposed and implemented parallel dual-read approach based on async call to solve multiple data sources consistency and potential high latency problem

- Other Responsibilities
  - Participates in agile methodologies, including story and task creation, demos, retros, and periodically serving as scrum master
  - Provides rotational on-call support, served 16 weeks(5 org's business critical), resolved 220 issues(60 high severity) by now, which is the 1st highest number in team
  - Independently executed more than 30 production deployments without issue, guaranteed on-time delivery iteration
  - Took the ownership to help new team building in Vancouver, Canada office, tutored engineers onboarding, shared knowledges, supported the team grew up quickly

Education

University of Massachusetts Amherst *Amherst, MA*

M.S. IN COMPUTER ENGINEERING, GPA: 3.3/4.0 *Sep. 2013 - Dec. 2015*

Wuhan University of Technology *Wuhan, China*

B.S. IN COMMUNICATION ENGINEERING, GPA: 3.5/4.0 *Sep. 2009 - Jun. 2013*

- Top Tier Scholarship which is given to top 6% promising students in Information Eng. Dept.