FAN YOU

Software Engineer

 $(516) \cdot 359 \cdot 8605 \diamond \text{contact@fyou.me}$

EDUCATION

Carnegie Mellon University, Entertainment Technology Center (ETC)

May 2016

Master of Entertainment Technology

Course: Distributed Systems, Algorithms and Advanced Data Structures, Building Virtual World.

New York Institute of Technology

May 2014

B.S. in Computer Science

Course: Operating Systems, Computer Architecture, Computer Graphics, Computer Networks, Database.

TECHNICAL STRENGTHS

C++, Java, C, Objective-C, Python, JavaScript, TypeScript Programming Languages

Systems GNU/Linux, MacOS, Windows

Platforms Oculus Rift, Gear VR, Eye Gaze, Kinect, leap Motion

Tools SVN/GIT, Vim

WORKING EXPERIENCES

June 2021 - Current Max

Engineering Lead, User Session Context

Seattle, WA

- · Led a 6-engineer team, developed a Stateless Context platform that delivers User Context for all Max APIs.
- · Implemented granular User Context Hydration, Graph-based Context Dependency Management, and Cached Context Invalidation.
- · Enabled services to notify clients of User State Changes via Context, eliminated hardcoded client logic.
- · Developed Session-based in-app test tool (Multiverse), facilitating testing of unlaunched markets, content premier, and fault injection in production without extra setup.
- · Sustained 480K RPS in the U.S. and cut Redis/DB costs by 90% compared to the legacy platform.

HBO Max June 2019 - June 2021 Seattle, WA

Staff Software Engineer, Identity & Auth

- · Built HBO Max identity platform with microservice architecture, led the U.S. launch, migrated 40M HBO Now user and later expanded to LATAM & EMEA with roaming support.
- · Developed a sharded API Gateway, centralized cross-cutting concerns and enhanced resilience. Introduced an in-house DSL based on OpenAPI, cut API onboarding time from weeks to minutes.
- · Built HBO Max Privacy Processor for CCPA compliance.

Amazon Nov 2016 - June 2019 Seattle, WA

Software Development Engineer, Financial Ledger

- · Worked on Amazon's Financial Ledger and Accounting System, built a muti-tenant configuration storage system and processing engine (Flare).
- · Built the in-memory caching/indexing mechanism with interning for Flare, which greatly improved configuration query API speed with minimal memory overhead.
- · Lead and built Excel-like UI editing experience for configuration in Flare.
- · Design and implement Schema Definition(language feature) for describing schema of transactions in Flare.
- · Built the Regression Testing Framework for configuration changes in Flare.
- · Design and implement conflict resolution mechanism for concurrent configuration editing in Flare.
- · Built a React-Redux based SPA website for journal line adjustment.

The MathWorks Jan 2016 - May 2016Natick, MA

Software Development Engineer Intern

- · Worked on building extension for Simulink that enable 3rd party UI to communicate with Simulink by implementing an intermediate mapping layer.
- · Implemented the code generation process and made Simulink protable for 3rd party UI as runtime lib.
- · Helped migrate Simulink from Matlab/C++ based UI to JavaScript based UI.

OPENSOURCE PROJECTS

GNU Compiler Collection

May 2015 - August 2015

Pittsburgh, PA

 $Libstdc++\ Developer$

- · Implemented fundmental TS: Extend shared_ptr to support arrays (N3920)
- · Implemented fundmental TS: Polymorphic Allocator (N3525)