VINCE PERGOLIZZI

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Staff-level Software Engineer with 11+ years of experience working on prominent consumer and business facing products. Passionate about making computers and people work more efficiently at scale.

EXPERIENCE

Senior Lead Software Engineer, DraftKings   Jan 2021 – Current

Rewards Experience team

- Served as an IC tech lead for a squad of 5. Provided technical vision and guidance to adjacent squads in the division.
- Consolidated a feature with many product-specific implementations into a platform-owned microfrontend able to serve the entire DraftKings' product catalog. Significantly lowered development costs of individual features in that domain as well as total bootstrapping cost and time to market for net new products.
- Rebuilt DraftKings' legacy single-product Loyalty feature to support the launch of a new enterprise-level program. Rearchitected the backend from batch-based to streaming-based calculation, leveraging Kafka and MySQL to process peak loads of thousands of events per second. Rewrote the frontend layer as a React-based web microfrontend and integrated it into each of DraftKings' 10+ web and mobile apps.

Lead Software Engineer, DraftKings   Jul 2019 – Dec 2020

Promotions Platform team

- Served as an IC tech lead for a squad of 8-10 with an outsized technical scope.
- Solved challenging scaling and architectural problems in high volume write-heavy C#-based microservices leveraging MySQL/Redis/SQS. Allowed the business to execute it's aggressive customer acquisition strategy during it's most critical growth phase, expanding into single-digit million MAUs.
- Contributed to company-wide tech modernization initiatives by migrating legacy .NET microservices to run on Linux and pioneered the use of Docker to improve developer productivity and reduce defects.

Lead Software Engineer, Athenahealth   May 2018 – Mar 2019

Quality Management as a Service team

- Part of a team which shipped a rewrite of the company's Clinical Quality Measure engine, achieving the planned go-live date and government CEHRT certification. Featured on the AWS containers blog, https://tinyurl.com/mrxk96np.
- Made key contributions to a Typescript based HL7 Clinical Quality Language (CQL) interpreter, increasing it's coverage of the language spec and improving support for execution against various data models.
- Increased throughput of a Typescript based AWS Lambda function used to load S3 hosted CSV files into Snowflake from 4GB/hour to 100GB/hour by properly leveraging concurrent coding patterns and bulk loading APIs.

Lead Software Engineer, Athenahealth   May 2017 – Apr 2018

Population Health team

- Improved the performance of a C#/T-SQL ETL engine used to process terabytes of healthcare data across thousands of custom feeds. Reduced daily processing time by 2+ hours per server.
- Completed complex, ambiguous individual projects such as replacing a Splunk log shipping pipeline with the ELK stack and porting a legacy on-premise ETL system to run on the Microsoft Azure cloud.
- Implemented a C# integration testing framework leveraging SQL Server snapshots. Enabled developers to work more quickly and confidently on a business critical legacy codebase.

Software Engineer, FortressGB   Nov 2010 – Apr 2017

- Built a batch processing system using T-SQL/SQL Server that powers the rewards programs of 10+ major sports teams around the world such as the Boston Red Sox and Manchester City.
- Developed worker processes and SOAP/REST API endpoints using C#/.NET to integrate with sports ticketing and payment processing systems.
- Improved practices used to build and deploy database migration scripts to 100+ on-premise environments.

EDUCATION

University of Hertfordshire, BSc Computer Science   2007 – 2010