Jeremiah Dunne

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Education

University of Michigan   *Ann Arbor, MI*
B.S. Computer Science   *Sept. 2016 - April 2020*

Experience

Home Point Financial   *Remote*
Lead Software Engineer   *December 2022 - Present*
Senior Software Engineer   *May 2022 - December 2022*
Director - Consumer Analytics Development   *May 2020 - May 2022*

- Designed, developed, & supported API services using .NET/.NET Core
- Developed and maintained an internal Angular web application for solving various operational and data tasks
- Built and maintained CI/CD pipelines in Azure DevOps for Docker, Python, Angular, .NET, Scala, & Apache Spark applications as well as Sql Server, PostgreSQL, & Snowflake databases
- Integrated and maintained Azure AD authentication and identity management for multiple applications
- Took ownership of legacy .Net applications and refactored them to Kuberenetes micro-services
- Designed and built event based applications using Azure Storage Queues, Azure Service Bus, & Azure Event Hubs
- Administered Azure Kubernetes deployments for cost effective and scalable micro-service based infrastructure
- Worked directly with remote business teams to design, build, & support automation and mortgage loan pricing applications including margin, price, & rate sheet management
- Reduced feature request and bug fix turn times to days or weeks instead of months using CI/CD and Agile methodologies
- Interview, hired, & led a team of one senior engineer since June 2022
- Led technical interviews for software engineers, data engineers, & architect roles
- Provided technical expertise and support to internal data teams for infrastructure, application development, & security
- Led training sessions on git, CI/CD, & DevOps best practices for various internal teams
- Implemented and administered several Apache Airflow deployments for data teams
- Administered Azure Databricks for a team of data scientists, data analysts, & engineers

Criteo   *Ann Arbor, MI*
Software Engineer Intern

Summer 2019

- Wrote, tested, & scheduled Apache Spark, Hive, & HDFS jobs in Scala on a petabyte scale Apache Hadoop cluster
- Eliminated tech debt in legacy projects by updating to a modern Scala job scheduler

Home Point Financial   *Ann Arbor, MI*
Software Engineer Intern

Summer 2018

- Worked on a fast paced development team building a mortgage origination web application
- Implemented features and bug fixes for a fast growing, customer facing, REST Web API using ASP.NET

Summer 2017

- Worked to automate the New Hires & Terminations process by centralizing pdf forms on an ASP.NET MVC Web App
- Worked extensively with Human Resources and the Help Desk to create a streamlined, fully featured application

Research

University of Michigan Systems Lab   *Ann Arbor, MI*
Research Assistant   *Aug. 2019 - Dec. 2019*

- Worked on a team researching frontend stalls in managed languages (.NET & Java)
- Profiled applications with cache simulators to identify high I-cache miss-rates
- Adapted microprocessor simulation techniques to test caching mechanisms
- Worked with zsim cpu simulator to add advanced cache partitioning

Skills

Programming	C#, Python, Scala, Apache Spark, TypeScript, Angular, HTML, CSS, Docker, C++, C, JavaScript, Go, Functional Programming
DevOps	Git, Bash, Linux, CI/CD, Azure AD, OAuth, Open ID Connect, Single Sign On, Azure, Azure DevOps, Azure Pipelines, Helm, kubectl, Confluence, Agile Development Methodologies, YAML
Computing	Azure, Kubernetes, Containers, Microservices, Security Fundamentals, Linux, Databricks, SQL Server, PostgreSQL, Snowflake, Airflow, Spark, Datadog