

IVAN PENG

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OBJECTIVE

Software engineer with a specialization in data applications and infrastructure. I'm seeking a position in which I'm challenged and empowered to build maintainable software. I offer 9+ years of experience from various tech companies up and down the stack, but recency bias has me specializing in data infrastructure. Looking for a transparent and forward-culture company with interesting problems to solve.

TECHNICAL STRENGTHS

Coding	Python, Scala, Java, Kotlin, Typescript, JavaScript
AWS Technologies	EMR, EKS, RDS, Cloudfront, EC2, SQS, Lambda
Infrastructure	Terraform/Terragrunt, Kubernetes, Helm, CloudFormation, Docker
Big Data	Spark, Trino (Presto), Hive, Databricks, Snowflake, Pinot
Languages	English (native), Mandarin Chinese (native)

EXPERIENCE

Shinami <i>Software Engineer</i>	New York, United States <i>Sep 2023 - Present</i>
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- Generalist engineer at seed-stage startup building out a developer platform for web3 applications
- Designed and implemented a hybrid compute cluster capable of running stateful workloads on kubernetes
- Set devops procedures for building and monorepo artifacts

Technologies: Typescript, Terraform/Terragrunt, Kubernetes, Helm, Kotlin, Rust

DoorDash <i>Software Engineer - Data Infrastructure</i>	San Francisco, United States <i>Apr 2021 - Sep 2023</i>
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- Designed and implemented a self-serve Spark streaming platform replicating over 500 database tables in less than 30 minutes latency
- Presented at a tech conference on spark streaming and file formats
- Scaled out and standardized workflow orchestration infrastructure on Airflow on Kubernetes, running 180k tasks per day
- Led and mentored team of 4 intermediate/senior engineers, providing direction and upleveling them

Technologies: AWS (EMR, Aurora RDS, S3), Kafka, Kubernetes, Helm, Spark, Trino, Airflow

Nextdoor <i>Software Engineer - Data Platform</i>	San Francisco, United States <i>Mar 2019 - Apr 2021</i>
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- Implemented and maintained workflow orchestration cluster (Airflow) for ETL jobs across company
- Led initiative to rebuild the experimentation platform at Nextdoor via Spark, automating AB test analysis, and enabling low-latency subject exploration via Apache Druid
- Built and scaled out the in-house PII obfuscation framework, responsible for tokenizing terabytes of data per day and handling deletes in an efficient manner

Technologies: AWS (ECS, EKS, CloudFormation, Kinesis), Kafka, Druid, Spark/Presto/Hive, Airflow

Index Exchange*Software Engineer - Data*

Toronto, Canada

Oct 2017 - Aug 2018

- Data infrastructure engineer developing an ETL pipeline which processes 80 TB of data per day with guaranteed exactly-once delivery
- Implemented spark structured streaming with akka to deliver raw logs into structured parquet records
- Set CI/CD processes to streamline testing, packaging, and deploying jars to production via sbt

Technologies: Scala, Spark, Parquet, Hadoop, Akka, Apache Zookeeper/Curator, SBT*Software Engineer - Full Stack**Dec 2016 - Oct 2017*

- Full stack developer in the ad tech industry working in header bidding, building tools to help publishers configure and launch JS files to a CDN to facilitate real-time auctions for ads
- Implemented various MongoDB optimizations to handle generation of JS files in a timely manner while keeping the API stable
- Wrote real-time bidding auction for ad inventory library responsible for sub-second transactions

Technologies: Docker, Angular, Webpack, TypeScript, NodeJS, MongoDB, PostgreSQL, Jenkins**Intranel Ltd.***Intermediate Developer*

Christchurch, New Zealand

Apr 2015 - Aug 2016

- Full-stack developer for at a contract development shop, working for various local companies
- Implemented a recruiter collaboration service which provided a video catalog of candidates and easier exposure to certain job vacancies – a JIRA flow for recruiters and candidates
- Worked in the Microsoft + Azure stack, with a focus on writing clean and maintainable code

Technologies: C#, ASP.NET, Xamarin, MSSQL, Javascript (Knockout, jQuery, React), Swift, TravisCI**Plany Corp.***Android Developer*

Taipei, Taiwan

Nov 2013 - Dec 2014

- Primary Android developer for mobile startup company out of Taipei, developing an app which gamified scheduling meetups, to incentivize faster decision-making amongst a group
- Worked on synchronization tool between local SQLite and MySQL DB

Technologies: Android, Facebook SDK, Google Wallet, MySQL, SQLite, SVN**Royal Bank of Canada Capital Markets***Jr. Developer, Fixed Incomes and Currencies*

Toronto, Canada

May 2011 - Aug 2012

- Framework developer for an end-of-day dynamic risk reporting system for senior business executives
- Developed ETL pipeline in Java for ingestion into an OLAP cube

Technologies: Java, Spring, MSSQL, OLAP, Sybase, Maven**EDUCATION**

University of Toronto

B.A.Sc. in Engineering Science

Engineering Mathematics, Finance & Statistics Option

Sep 2008 - Jun 2013