

Ian Clark

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Skills

Languages: Python, Java, Kotlin, Go, Elixir

Frameworks: Flask, Spring Boot, Django, Phoenix

Frontend: React, Redux, HTML, CSS, Javascript, Typescript

Infrastructure: Amazon Web Services (AWS), Kubernetes, Docker, Terraform

Datastores: PostgreSQL, MySQL, MSSQL, ElasticSearch, MongoDB

Github: <https://github.com/ianleeclark>

Experience

Tech Lead - Billing Automation, byrd Technologies GmbH (Remote) Aug 2021 – Present

- Reduced annual cloud expenses by 37% by fine-tuning auto-scaling and provisioned resources on AWS.
- Eliminated 4 months annually of data entry work by building an OCR pipeline to import carrier contracts.
- Lowered CI duration by 80% through proper caching, parallelization of tests, and database optimization.
- Reduced weekly on-call support tickets by 40% by automating common Tech Support issues.
- Led an initiative of 20 developers to build a new order import system reducing errors by 18%.
- Onboarded and mentored new hires and junior coworkers.

Senior Software Engineer, byrd Technologies GmbH (Remote) June 2019 – Aug 2021

- Saved 6 months annually of employee toil by architecting and building an internal invoicing platform.
- Saved warehouse workers 1 hour daily through building Batch Picking APIs and workflows using Python.
- Eliminated developer toil by building a library to turn OAS/Swagger APIs into Python Client Libraries.
- Increased deployment frequency from weekly to daily through automating our deployment process.
- Improved application performance through database index optimization and elimination of n+1 queries.

Software Engineer, Packlane (Remote) Dec. 2017 – May 2019

- Recovered 16k USD monthly by programming a more accurate pricing pipeline using Elixir.
- Eliminated data loss through an effort of migrating off MongoDB and Ember.js onto Postgres and React.
- Improved service uptime from 99.9% to 99.999% by implementing application supervision with systemd.
- Eliminated data-loss by replicating customer assets throughout our cluster using Java on AWS.

Software Engineer, LeMans Corp. (Hybrid) Dec. 2016 – Dec. 2017

- Built a search engine capable of handling 20k products with 480k derivatives by utilizing ElasticSearch.
- Reduced ETL Pipeline system induced strain by architecting a new system using Kafka and Java.
- Contributing to an in-house E-Commerce Platform built atop Java, Kotlin, and Spring Boot.

Web Application Developer, VirtuCrypt Nov. 2015 – Dec. 2016

- Improved performance of a TCP Multiplexer by 3200% by rewriting it in Go with 0-allocation overhead.
- Reduced time to provision a new server by 4 hours by automating the process using Ansible.
- Built a customer-facing RESTful API using Python and Flask.

Education

The University of Texas - San Antonio – BBA in Economics

May 2015