

Hello. I'm Martin Raag.

Contact

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Technologies

- Python
- JavaScript
- Node.js
- Swift
- C#
- PHP
- Linux
- Docker
- Amazon Web Services
- SQL
- Git
- HTML
- CSS

Education

2007 - 2010
UNDERGRADUATE, CUM LAUDE
IT SYSTEMS ADMINISTRATION
Estonian Information
Technology College

Experience

2017 - PRESENT

SELF-EMPLOYED SOFTWARE ENGINEER

LIMITING FACTOR | London, United Kingdom

- Gathered input from customers to design solutions meeting efficiency and reliability requirements, and plan agile sprints to avoid redundant work.
- Created a data processing pipeline using Python and BigQuery, handling over 100 million records using data extracted from multiple sources.
- Developed a distributed testing system on AWS utilizing Python, Docker, Packer, and DynamoDB for observing the network performance of hundreds of globally deployed proxy servers.
- Built a React web application and the corresponding HTTP API server in Node.js to query and visualize time series data.

2014 - 2017

HEAD OF ENGINEERING

TESTLIO | Tallinn, Estonia

- Built and managed the software development organization of a post Series A startup, growing the team from 2 to 11 engineers.
- Worked with executive leadership to implement a squad model which gave engineers increased ownership and say in the direction of the team.
- Developed and operated a large PHP web application backed by MySQL and Redis, several smaller services implemented using Node.js, Docker, DynamoDB, AWS Lambda, API Gateway, and frontend applications with React.
- Improved reliability by distributing the AWS cloud infrastructure over multiple availability zones, introducing software testing practices, continuous integration and code reviews.
- Decreased incident response and resolution times by implementing monitoring and alerting, centralized logging, and automating infrastructure setup with CloudFormation.

2011 - 2014

SOFTWARE DEVELOPMENT ENGINEER

MICROSOFT | Tallinn, Estonia

- Developed large distributed backend services on the Azure cloud using C# and ASP.NET, for use by Skype client applications.
- Implemented continuous integration and delivery pipelines.
- Participated in on-call rotations responding to incidents in production.
- Collaborated across teams to implement tools and processes for testing, integration, and observability of our service-oriented architecture.

2009 - 2011

SOFTWARE ENGINEER

SKYPE | Tallinn, Estonia

- Developed web applications using Python, Django, Tornado, PostgreSQL, JavaScript, and D3.js.
- Operated a test automation lab for evaluating the quality of the Skype client on a variety of hardware, operating systems, and network conditions.
- Increased testing reliability and efficiency by implementing a system to automatically prepare environments using PXE, partclone.