

PARSA MESGARHA

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TECHNICAL SKILLS

Languages: Go, TypeScript, JavaScript, Java, Python

Technologies: Node.js, React, Express.js, Next.js, JSON, Protocol Buffers, gRPC, PostgreSQL, TypeORM, Tailwind CSS

Tools: Git, Mercurial, Vim, Docker, Vercel, Google Cloud, Bazel, Ninja

EXPERIENCE

Google

September 2021 – Present

Software Engineer (Chrome, Android and Play Console teams)

London, England

- Part of the Chrome on Android team, launching features for [WebAPKs](#) to make web applications feel more native on Android. Maintaining a high-traffic service-oriented Go server that generates APKs for tens of millions of monthly WebAPK create and update requests, and contributing client-side changes to the Chromium browser project.
- Implemented and deployed server-side support for the 'id' property used in [PWA manifests](#) to Chrome 108. Resulted in enabling a universal cross-platform identifier, aligning a standard across installed desktop and mobile web applications.
- Contributed to the development of an experimental in-app browser API for Android apps by implementing low-level IPC calls using Java. Built an Android app showcasing the capabilities of the browser for testing and development purposes.
- Built a command-line interface in Go to generate in-product Play Console messages, which increased release velocity by saving an estimated 6 engineer-hours per month, and reduced the risk for common errors to occur. Received bonus after a Senior Software Engineer and their team used the CLI to create several messages.
- Mentored tenured Software Engineers and led talks on topics like CLI tools, Vim, and developer workflows, contributing to improvements in engineering velocity.
- Volunteered as a teaching assistant for a programme educating non-technical employees on programming in Python.

PROJECTS

MechKeebs | mechkeeps.com

github.com/pzrsa/mechkeeps

TypeScript, Express.js, PostgreSQL, TypeORM, Next.js, React, Docker, Google Cloud, Vercel

- Built an open source web application for mechanical keyboard enthusiasts which allows users to share photos of their keyboard, with the goal of learning new technologies.
- Implemented an Express.js web server in TypeScript for authentication and CRUD operations, used PostgreSQL to store users (authenticated via Twitter OAuth API), posts and session data, and Google Cloud Storage to store/serve user uploaded images. Deployed to a Docker container through a [Dokku](#) pipeline, hosted on a VPS.
- Uses the Next.js React framework with a combination of Server-side and Client-side rendering with the [SWR](#) data fetching library and the [Chakra UI](#) component library to build a responsive and accessible user interface. Deployed to Vercel, the frontend development platform.
- More details in this [post](#).

Personal Website | parsam.io

github.com/pzrsa/parsam.io

TypeScript, Next.js, React, Tailwind CSS, Vercel

- Built an open source blog to acquire practical development experience and establish a personal brand, by posting book notes and articles.
- Implemented a pipeline to automatically convert posts written in Markdown into HTML by using the [Remark](#) library and Node.js File System APIs.
- Uses Next.js Static Site Generation, Spotify API to fetch and display the currently playing track, Tailwind CSS to build a minimalistic style user interface, and Vercel for hosting.

EDUCATION

University of London

Part-time

Bachelor of Science - Computer Science (pending)

Remote

Makers Academy

September 2021 – December 2021

Level 4 Software Engineering Apprenticeship Bootcamp

London, England

REFEREES

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Google - Vice President of Chrome

Peter Beverloo

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Google - Web on Android Lead