

Yoosif Sherif

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SUMMARY/ HIGHLIGHTS OF QUALIFICATIONS

8 years of experience in backend, cloud infra, frontend, command line interfaces, web scrapers/automators, and browser extensions

TECHNICAL SKILLS

- **Major Experience:** Golang, Node.js/Javascript/Typescript, Python, React.js, Docker, AWS (SNS, EC2, CDK, Lambda, S3, IAM), LLMs Api Integration, Postgresql, CI/CD, RESTful API, Microservices Architecture
- **Intermediate Experience:** Angular, MongoDB, Firebase Auth, CSS, Expo and React Native Mobile apps development, EAS cloud services, Github actions, GCP, Flask, Websockets, Lua, Sqlite
- **Minor Experience:** C#, Bash, Solidity, C

PROFESSIONAL EXPERIENCE

Software Engineer

Apr 2017 - Jan 2026

Independent Contractor (several clients + internal projects) (not continuous), Several countries (Remote)

- Developed an online platform where users watch videos and conduct quizzes that test their comprehension. Tech: Golang, Typescript, sqlite. React.js
- Wrote lua scripts on top of a terminal-based application written in C. I improved user experience by lazy loading parts of the scripts that doesn't affect initial screen loading to reduce time to first paint.
- Developed a system that extracts relevant data from a yaml file and generates a docx resume reducing the time to customize resumes by a huge margin. Tech: OpenXML SDK, Javascript.
- Developed a crawler that scrape posts from a social media platform and input them into an LLM pipeline to determine whether the content meets specific criteria. Tech: Groq, Puppeteer
- Developed state-of-the-art text-to-speech system (in its language, at the time, among open source) in terms of speech naturalness
- Built a test generator that generates end-to-end tests for web applications that use Redux
- Built a system that allow users to grant and revoke access of encrypted data without the reliance of third party storage systems. Tech: Solidity, IPFS, react.js
- Created a browser automator that asks selected ask.fm users (filtered by their interests) for responses, cutting the cost per answered question answered compared to traditional surveying tools like SurveyMonkey. Tech: Puppeteer, MongoDB, chrome extensions, JSDOM, Nodejs
- Built a web crawler that checks regularly whether a class seat is available and notify the user by an email whenever a seat is available, reducing the time invested by students manually monitoring those classes
- Developed a browser extension to automate text extraction from specific DOM selectors using the browser.scripting API

Software Engineer

Apr 2019 - May 2025

Toptal (several clients) (not continuous), San Francisco, USA (Remote)

- Maintained a Retrieval-Augmented Generation (RAG) pipeline using PostgreSQL with pgvector extension, enabling semantic search over academic papers with dimensional vector embeddings
- Built an academic paper search application using OpenSearch's vector search capabilities, with AI chat integration
- Designed a pipeline in AWS for extracting text uploaded to one s3 bucket and uploading the result to another bucket. Pipeline involved 2 s3 buckets, an SNS topic, 2 cloudwatch alarms, 2 lambdas, and AWS Textract. Used AWS CDK as IaC.

- Developed the frontend and backend of a vehicle auction management admin panel within about 2 weeks
- Developed an admin panel with sophisticated client-side state management along with an API service
- Created a web crawler that streams log messages in real-time to a react.js frontend
- Crawled complex data from a website that requires parsing scripts from the page to extract information like authorization tokens. A chrome extension was used to crawl the data. Data is uploaded to AWS S3 after crawling.
- Developed a chat interface (both frontend and backend) that used open ai's api. Each user had custom data used as context for open ai api.
- Converted a web app to android and ios apps in 3 days using expo and react native. Apps had a chat interface, authentication forms, and data tables.
- Created react components as part of a chrome extension, where the components appears as a modal in specific pages adding custom functionality.
- Used Expo and React Native to build an app that had a chat interface, speech recognition, speech synthesis, integration with open AI, authentication forms, and data tables.

Software Engineer

Mar 2021 - Mar 2023

Synthesis AI, San Francisco, USA (Remote)

- Accountable for feature development, maintenance, and release of a web application that served hundreds of users, including several Fortune 100 companies.
- Developed and maintained a Go API integrated with a PostgreSQL database and other external APIs (like Stripe API) interfaced by a web app and a CLI
- Started building features and fixing bugs in an existing codebase from day one
- Refactored a React.js codebase which led to the removal of about 500 lines of code using React hooks
- Reduced bug arrival rate in the data layer after integrating SQLboiler (a database-first code generator), replacing standard library SQL queries
- Completed tasks ahead of schedule in over 90% of sprints.
- Achieved the highest frequency of merged pull requests among a team of 4, averaging about 2 PRs per working day with each PR representing one Jira task on average

Software Developer

May 2019 - Sep 2019

Speechmorphing (part-time), San Jose, USA (Remote)

- Saved more than 90% of compute costs for ML inference GPU instances by developing an app feature that allows stakeholders to turn the instances 'off' when not needed
- Accountable for feature development, maintenance, and deployment of microservices and a web application that allows users to try a text-to-speech system

EDUCATION

Master of Engineering (Electrical and Computer Engineering)

2021

University of British Columbia, BC, Canada

TEST SCORES

- **SAT I Math:** 800/800
- **SAT II Math:** 800/800

TESTIMONIALS

In Recommendations' section in [linkedin.com/in/yoosif](https://www.linkedin.com/in/yoosif)