

Yoosif Sherif

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SUMMARY/ HIGHLIGHTS OF QUALIFICATIONS

- 8 years of experience in backend, frontend, command line interfaces, web scrapers/automators, chrome extensions, and eth solidity contracts
- Persistent, quick learner, and adapts to new environments.
- As proof, earned a master's degree from a top-ranked university in a field different from my undergraduate degree, and developed the best (in terms of speech naturalness) (at its time) open-source Arabic text-to-speech system in 2 months without having prior experience in the field

TECHNICAL SKILLS

- **Major Experience:** Chrome extensions development, Golang, Browser automation and crawling, Node.js/Javascript/Typescript, Python, Express.js, React.js, Docker, AWS EC2, AWS S3, AWS lambda, Vercel, Heroku, AWS beanstalk, AWS CDK, Git, LLMs Api Integration, JWT, Firebase Auth, Puppeteer, Angular, jj, claude code, CSS, Data structures and algorithms, Postgresql, MongoDB, Gorilla Mux
- **Intermediate Experience:** C#, Expo and React Native Mobile apps development, EAS cloud services, GCP cloud storage, Flask, GCP Compute Engine, AWS SNS, AWS Textract, Github actions, Websockets, Stripe API, Squid HTTP proxy, Lua, Sqlite
- **Minor Experience:** Container Orchestration, Bash, Solidity, Firebase DB, Twilio API, AWS SES, Google+ Auth, Facebook Auth, kubernetes, wget, C, Airtable, AWS SQS, OpenXML SDK

PROFESSIONAL EXPERIENCE

Software Engineer

Jun 2025- Present

Independent Contractor, Remote

- Developed an online platform where users watch videos and conduct quizzes that test their comprehension
- 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 doesnt affect initial screen loading.

Fullstack Developer

Apr 2019- May 2025

Toptal (Several Clients) (toptal.com), not continuous, Remote

- Developed a vector-based search engine for papers with AI chat integration. Integrated with opensearch (an elasticsearch fork)
- 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 Developer**Mar 2021- Mar 2023**

Synthesis AI (synthesis.ai), 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 (speechmorphinc.com), part-time, 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

Senior Developer then Technical Team Lead**Apr 2017- May 2019**

ThoughtDesign, Remote

- Within 2 weeks, optimized the build and bundling process for three Angular apps which led to about 30% faster bundling
- Conducted interviews and evaluated candidates as part of the hiring process that led to 5 hires
- Led a team of 3 that was recognized as the top-performing team by one of the company's major clients
- Developed new features in Angular for an enterprise project, collaborating effectively with other developers within a Scrum framework

Fronted then Fullstack Developer**Oct 2016- Apr 2017**

34ML (34ml.com), Cairo, Egypt

- Optimized a MongoDB query reducing response time by more than 50% which led to better UX
- Developed and maintained a backend service that integrates with an ios and Android app to allow thousands of a multinational pharma company's employees to conduct tests on their phones
- Learned and applied various technologies rapidly to meet project demands
- Fixed bugs and built features for AngularJS admin panels that involved real-time notifications and hierarchical access control

OTHER PROJECTS**OpenXML resume generator****Aug 2024- Aug 2024**

- Purpose: Reduce time needed to update .docx resumes
- Outcome: 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

Fbcl**Jul 2024- Jul 2024**

- Scrape posts from a social media platform and input into an LLM pipeline to determine whether the content meets specific criteria. It is in a private repo but can screen-share my code. Tech: Mistral, Groq, Puppeteer

Statebook**Aug 2020- Nov 2020**

- Purpose: Reduce the time needed to write web applications frontend tests
- Outcome: Built a test generator that generates end-to-end tests for web applications that use Redux

iGrant**Mar 2020- Apr 2020**

- built a system that allow users to grant and revoke access of encrypted data without the reliance of third party storage systems.

Ask Fm Automator**Feb 2019- Mar 2019**

- Purpose: Allow entrepreneurs and small businesses to conduct market research affordably
- Outcome: Created a browser automator that asks ask.fm users (filtered by their interests) for responses, cutting the cost per question answered compared to traditional tools like SurveyMonkey

Arabic Tacototron TTS**Aug 2018- Oct 2018**

- Purpose: Develop a text-to-speech system with a higher naturalness score for the Arabic language for small businesses that can't afford proprietary systems' costs
- Outcome: developed a more natural sounding TTS system compared to the legacy state-of-the-art open source TTS system

Youtube channel**Aug 2018- Aug 2018**

- Helped hunderds of software developers learn react.js

Course availability monitor**Sep 2017- Sep 2017**

- Purpose: reduce the time students spend to monitor seat availability for classes at capacity.
- Outcome: 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 user manually monitoring those classes

EDUCATION

Master of Engineering (Electrical and Computer Engineering)
University of British Columbia, BC, Canada

2021

TESTIMONIALS

- "incredibly meticulous in his work "
- "was able to effectively communicate technical concepts and ideas to non-technical stakeholders "
- "his ability to build quickly and to do so with a high level of care and thoughtfulness "
- "He's responsive, hard-working, and a great communicator "

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