

Tarun Singh

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SUMMARY

Results-driven Full Stack Web Developer proficient in a diverse technology stack including Typescript, React, Angular, Node.JS, Express, MongoDB, C#, .NET, and Python. Proactive problem solver with a passion for innovation and collaboration. Committed to delivering high-quality code and staying current with industry trends. Strong track record in project coordination and open-source contributions.

WORK EXPERIENCE

Senior Full Stack Developer

Dec 2023 - Present

RBC, Canada

- Working with wealth management team on NodeJS 14 to 20 and MongoDB migration in over 10 projects and microservices.
- Technologies - **JavaScript, Typescript, Node.JS, GraphQL, AWS, Angular, GIT, GitHub, MongoDB and PostgreSQL.**

Full Stack Web Developer

Jan 2023 - Aug 2023

SOTI, Canada - Contract

- Actively participated in scrum meetings, contributed to project planning and ensured coordination team members.
- Collaborated with senior developers to design and implement innovative features for iOS MobiControl products.
- Decreased enrolment type of iOS devices by adding QR code enrolment functionality
- Technologies - **React, JavaScript, Typescript, Node.JS, Apollo GraphQL, AWS, GIT, GitHub, MongoDB and MySQL.**

Full Stack Web Developer

May 2022 - May 2023

Basebuild, California, USA

- Developing new features in Typescript, including PDF generation, reusable components, Tree display etc.
- Migrated and fixed bugs for JavaScript-based express & Node.JS backend to typescript.
- Improved deployment time from an average of 10 minutes to 2.5 minutes by using automatic and parallel CI/CD
- Technologies - **NextJS, Node.JS, JavaScript, Typescript, Express, MongoDB, Serverless, GitHub, AWS, Microservices and MySQL.**

Full Stack Web Developer

Mar 2022 – Aug 2023

Neuravue, Canada - Part-Time Contract

- Provided technical guidance and troubleshooting support for the MVP.
- Worked on enhancing a real-time CCTV analytics platform utilizing AI models.
- Implemented event notifications to mobile app and web dashboard.
- Technologies – **React, JavaScript, Typescript, Node.JS, GraphQL, Jetson Nano, MongoDB, AI and ML.**

Full Stack Web Developer

Aug 2020 – Aug 2021

Kisan Network, New Delhi, India

- Decreased response time by 2 seconds for invoice generation & scraping by decoupling it and moving to serverless functions; also decreased peak ram consumption by 2 GB per service.
- Implemented Zero downtime deployments using GitHub action and google app engine.
- Technologies - **React, Redux, Node.JS, GIT, GitHub, GitHub actions, AWS, MongoDB and MySQL.**

Software Engineer

Dec 2018 – Dec 2019

Dockendale Ship Management

- Worked on creating daily reports based on current status and performance of various components.
- Worked on google chrome extension to make manual data entry easier.
- Technologies - **HTML, CSS, React, Typescript, GIT, GitHub and MySQL.**

OPEN SOURCE CONTRIBUTIONS

Uptime Kuma - TypeScript, JavaScript, Node.JS, C#, SCSS, HTML

- Status page certificate expiry <https://github.com/louislam/uptime-kuma/pull/3357>
- Added MQTT Monitor type <https://github.com/louislam/uptime-kuma/pull/875>
- Adds ClickSendSMS notification provider <https://github.com/louislam/uptime-kuma/pull/798>
- Added fix to remove children when type changed <https://github.com/louislam/uptime-kuma/pull/3311>

Shields - JavaScript, Node.JS, React, CSS, HTML

- [Netlify] Added changes to use a new color schema. <https://github.com/badges/shields/pull/6340>
- [Youtube] Added channel view count and subscriber count badges <https://github.com/badges/shields/pull/6333>

Free Code Camp - TypeScript, JavaScript, CSS, HTML

- Squashed Disable an element using JQuery. <https://github.com/freeCodeCamp/freeCodeCamp/pull/16578>
- Changed protocol relative URLs to HTTPS URLs. <https://github.com/freeCodeCamp/freeCodeCamp/pull/16573>

EDUCATION

Lambton College | Computer Software and Database Development GPA: 3.6 Sep 2021 - April 2023

Courses: Python, SQL, .NET, and Java web applications, Data structure and algorithms, and Database Development.

Indian Maritime University | Bachelor of Technology (B.Tech.) Aug 2014 - May 2018

- Programmed website for the college fest from Scratch, hosted on AWS and handled around 20,000 hits in 1 month.
- Designed and created a web-controlled model of a surveillance boat which used Raspberry pi and custom circuits & coded in python.

TECHNICAL SKILLS

Languages - JavaScript, TypeScript, Express, React, NextJS, Node.JS, Python, Flask, Django, C#, and .NET

API Integration - Slack, Stripe, Discord, OpenWeather, Google maps and Twitter

Databases - PostgreSQL, MySQL, MongoDB, Prisma and Mongoose

Tools - Web Scraping, Git, GitHub, GitHub Actions, AWS, Google Cloud, Serverless, Mocha, Jest, Unit testing, kafka

Certifications - Back End Development; APIs and Microservices; JavaScript Algorithms and Data Structures

PERSONAL PROJECTS

Monitoring and Scraping API - github.com/tarun7singh/website-api

- Architected and deployed an advanced Express and Node.JS-based API for monitoring and scraping data from third-party websites, employing the powerful Puppeteer library.
- Successfully implemented robust scraping techniques to parse and extract data from websites, overcoming challenges such as captcha and robot prevention scripts.
- Designed the API to present scraped data in a user-friendly and convenient format, facilitating easy access and utilization of the extracted information.
- Tools used – **JavaScript, TypeScript, Node.JS, Express, Axios, Puppeteer, GitHub Actions and MongoDB**

Alexa Skill - Coiner Bot - github.com/tarun7singh/Alexa-Coiner-Bot-Skill

- Designed and developed interactive Alexa skill available on the Amazon Store, allowing users to enable and utilize its functionality seamlessly.
- Implemented a robust and scalable API using Python and Flask web server deployed on AWS Lambda, enabling efficient communication and seamless integration with Alexa devices.
- Ensured a user-friendly experience by implementing intuitive voice commands and response handling, enhancing the overall usability and accessibility of the Coiner Bot skill.
- Tools used – **Python, Flask, Requests, Alexa, Serverless, and AWS Lambda**

Visa Appointment Booking Automation - github.com/tarun7singh/visa-appointment-checker

- Implemented and deployed an automated visa appointment checker leveraging advanced web scraping techniques to extract real-time data from the official US visa appointment website.
- Monitored the website continuously and promptly alerted users upon detecting earlier available time slots, increasing the likelihood of securing more convenient visa appointments.
- Developed an intelligent booking system that automatically completed the necessary forms, selected optimal time slots, and submitted booking requests, streamlining the appointment booking process for users.
- Tools used – **JavaScript, TypeScript, Node.JS, Express, Axios, Puppeteer and Github Actions**