Toyama Haruo

Blockchain-based Web and Mobile application Developer

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https://sakura-70c50.web.app/ https://github.com/robust34 live:.cid.4569f1e4b394882

PROFILE

I am a web developer with 5+ years of experience as a senior front-end engineer at Motorola Solutions. While I specializes in TypeScript, Sass, and HTML, my full-stack experience includes React and Angular on the front end, Node.js and Express.js on the back end, MongoDB, AWS and Azure cloud hosting, and Nginx server configuration. My industry experience is backed by a bachelor's degree in computer science.

EMPLOYMENT

04/2020 – 08/2022
Shanghai, China

Ontology
Blockchain Engineer

- Created and deployed the contract for the dex and defi platforms.
- Designed and deployed smart contracts for tokens and ICOs including token vesting, refund vaults, and multi-signature wallets.
- Developed ERC721, ERC1155, ERC20 smart contracts with solidity and some NFT projects based on them.
- Developed distributed applications (DApp) for payment processing, asset management, and smart contract automation

03/2017 – 02/2020
Chicago, Illinois, United States

Motorola Solutions
Front-End Developer

- Developed the authentication flow including register, email/social login, reset password, and confirm email
- Designed architecture and developed a fast, reliable and scalable REST API for a cloud based recruitment and workforce management platform.
- Contributed to developing and updating many end-to-end projects and marketing services

02/2016 – 03/2017
Tucson , Arizona, United States

University of Arizona
Mobile App Developer

- Redesigned and created the newest version of the "Arizona Mobile" app—the official Android app for the University of Arizona campus, including services such as maps, news, and class schedules. The app is available for download in Google Play.
- Developed the app using Java and Android Studio and used Git branching for merging and version control.
- Collaborated with graphic designers to design app user interfaces.

FULL-STACK

Front-end | Back-end | HTML5 | CSS | React | Blockchain | Github | TypeScript | JavaScript | Node.js | IOS, Android | ASP.Net | Docker | Python | Java | C#

LANGUAGES

English ●●●●○

Chinese ●●●○○

Japanese ●●●●○

PROJECTS

-Stock Market Technical Analysis
A project exploring various technical indicators on historical stock market datasets. The stock data was pulled from Yahoo finance, and the indicators included different combinations of moving average, MACD, RSI, and others.

-Real-time Computer Vision for Twitch Livestreams, Rust App, and React/Next.js Website: "Hypetrigger"
https://hypetrigger.io/
A machine vision AI application that automatically detects gaming highlights in live or recorded video and records 10 to 30-second clips. I built the core engine in Rust. It decodes video with FFMPEG on the GPU. It then uses one of two computer vision methods, either custom-trained TensorFlow models or a more general-purpose OCR (optical character recognition) using an open source Google library called Tesseract. The pipeline runs at about ten times the speed depending on the GPU. It can process 10 seconds of the input video in about one second.

Finally, I built a website to distribute and market this tool. It can be viewed at Hypetrigger.io. I built it using Next.js, and it is 100% statically generated. The content is created from JSON configuration files and a third-party REST API.

-Websocket Networking for Multiplayer Strategy Game: "Nodescape"
A multiplayer territory control strategy game written using WebSockets and Canvas. The website accepted payment using Stripe API and users logged in with Auth0. The website server was hosted on AWS with Nginx and Docker.

-Deep Neural Network for Lux AI Game Programming Competition (Imitation Learning)
https://www.kaggle.com/c/lux-ai-2021/leaderboard/
Lux AI is an AI programming competition hosted on Kaggle. I built a deep neural network that used imitation learning to mimic replays of the best public bots. This neural network achieved 80% accuracy in classifying optimal game moves. As a result, the entry ranked in the top 15% of the leaderboard.

EDUCATION

08/2014 – 08/2017
Tucson, Arizona,
United States

University of Arizona - Tucson, AZ
Bachelor's Degree in Computer Science
Computing & Mathematical Sciences

SKILLS

Languages:
JavaScript, TypeScript, Sass, HTML, HTML5, ES5, CSS, CSS3, TypeScript 3, Python, Java, x64 Assembly, GraphQL, Rust

Frameworks:
Angular, MUI (Material UI), Electron, Express.js, PixiJS, OAuth 2, Android SDK, Svelte, Angular Material, Unity, YARN, Next.js

Libraries/APIs:
Node.js, React, Three.js, WebRTC, Google Drive API, WebGL, REST APIs, TensorFlow, PyTorch, Stripe, Stripe API, Auth0 API, Twitch API, Rollup.js, DirectShow, Google Sheets API, FFmpeg

Tools:
Git, GitHub, Open Broadcaster Studio (OBS), Angular CLI, NPM, NGINX, Figma, Sketch, Jira, Android Studio, Canvas, Google Analytics, Slack, Blender, Auth0, GitLab, Canvas 2D, GIS, Webpack, Rollup, Stencil.js, Google Docs, Google Sheets, Flow, Adobe Experience Design (XD), Notion, Create React App, Amazon Cognito

Platforms, *Visual Studio Code (VS Code), Docker, Azure, Android, Amazon Web Services (AWS), Blockchain*