Koji Kanao

Brooklyn, NY | +1-917-250-6569 | kojikanao503@gmail.com

LinkedIn: https://linkedin.com/in/kojikanao **GitHub:** https://github.com/koji **Portfolio:** https://kojikoji.ga

TECHNICAL SKILLS

- **Proficient:** JavaScript, Reactjs, Redux, TypeScript, Node.js, Webpack, Python, openFrameworks, Processing, PostgreSQL, Git
- **Exposure:** Deno**,** Gatsbyjs, Nextjs, GLSL, TouchDesigner, OpenCV, Docker, Heroku, CircleCI, Sketch, rollup.js

PROFESSIONAL EXPERIENCE

Pivotal Advisors | Director of Technology | New York November 2020 - present

- Analyze data for clients and re-build the website, build and design system for automating company's operations

Ubiquiti Networks, Inc | Software Engineer(R&D) | New York July 2018 - July 2020

- Built a react application that can load the 3D model and allows users to manage IoT devices visually for IoT device control system with TypeScript, Redux, Yarn Jest, and CircleCI Then converted the react application to an npm package for other teams' frontend application
- Optimized the npm package to shorten build time with Webpack I could reduce the duration by over 90%
- Built and launched UniFi-Network-AR to simplify IT maintenance tasks using C#, Unity, JavaScript, and Node.js for beta testers
- Developed machine learning application to detect rooms from an image using Python, Keras, and Beautiful Soup, Selenium, correctly 150-floor plans from Matterport Gallery, processing and predicting 5-floor plans from 3D models

New York University | Researcher | New York August 2018 - July 2019

- Built media art application that generates generative art that generates patterns and animations by numerical expression with Python and openFrameworks
- Held workshops as routine to extend students' interests and knowledge in web development using JavaScript, Git,openFrameworks encouraged students to use new tech stack for their projects

N-GEMS, Inc | Co-Founder/Lead Engineer | New York February 2017 - January 2018

- Built N-GEMS web application and service using Nodejs, Raspberry Pi, which led team being selected as one of the cohorts of NYC Media Lab Combine
- Prototyped and developed low-cost WiFi/Bluetooth signal sniffing device using Raspberry Pi, Aircrack-ng, Bluez, Python Contributed to evaluate proof of concept and teamwas selected as a finalist

SCSK, Inc | System Engineer | Japan April 2010 - October 2013

- Developed and maintained power plants' control system with C, C++, Java, and Unix OS, helping maintain 99% uptime
- Built tools for the project team and manager using VBA reduced operation time from 5 minutes to 1 minute

EDUCATION

M.A., *New York University - Interactive Telecommunication Program* May 2018
M.A., *Kobe University - Econometrics* March 2010
B.S., *Tokyo University of Science - Operations Research* March 2008

PROJECT WORK

mtrand | Developer | Deploy URL | GitHub 2020

mtrand is deno third party library that uses mt19937, pseudo-random generator from C++

- The motivation was to evaluate Deno ecosystem for future work since Deno is different from Nodejs ecosystem
- Allowed for developers to generate random numbers with Deno and this functionality could help other developers

rect-nes-components | Developer | Deploy URL | GitHub 2019

react-nes-components is react UI-component that allows developers to use NES.css with Reactjs

- The motivation was to understand process of creating UI-components and understand the value of using StoryBook
- Developed react ui-components with TypeScript, styled-components and CSS framework, NES.css
- Downloaded by more than 300 developers in first week of release

iCTrainer | Developer | Deploy URL | GitHub 2019

A command-line tool that helps users to train customized image classifiers with powerful built-in tools: image collection, resize, and face detection.

- Developed a package to avoid spending time for training an image classification model with Python
- Allowed users to train image classifiers with one-line command and they can skip coding even one line.
- Supported image collection function, image resize function, and face detection by image downloader and OpenCV