

# John Parks

Software Engineer, DevOps Engineer, Manager

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## Skills & Technologies »

- **Web Application Development** - Fullstack, JavaScript, HTML/CSS, Chrome Extensions
- **JavaScript** - Modern ECMA, TypeScript, Node.js, React, Svelte, esbuild, Vite, Playwright
- **Python** - Flask, Pandas, NumPy, Matplotlib, Pytest, Pytorch
- **Go** - Gin, GORM, Viper, Cobra, Testify, gRPC
- **PHP** - Laravel, Symfony
- **Database** - PostgreSQL, MySQL, SQLite, Redis, No-SQL, HA
- **Development Tooling** - Git/SVN, GitHub, GitLab, BitBucket, Jira
- **Linux/Unix** - Debian, Ubuntu, RHEL, CentOS, VMWare ESX, Proxmox
- **DevOps & System Administration** - Docker, CI/CD, Nginx, Apache2, HAProxy, Varnish, Memcached
- **Monitoring, Logging, & Insight** - Grafana, Elastic Search, Logstash, Kibana, Graphite/StatsD, InfluxDB
- **Cloud** - AWS Certified Solutions Architect #255285, GCP, Azure
- **Payments & eCommerce** - PCI DSS Compliance, Regional Taxation, Subscriptions, Custom Shipping, Affiliate Networks
- **Analytics & Advertising** - Google Analytics, Tag Manager, CAPI, Facebook, Tiktok, S2S, deep-funnel conversion, CRM
- **Graphics** - Adobe Photoshop, Adobe Illustrator, Figma
- **Web Automation & Scraping** - Bot detection/bypassing bot detection, Browserless HTTP, Fingerprinting

## Experience »

### Independent Contractor - Software Engineer

*San Diego, California; 2012-present*

Boutique software development with a focus in web automation and creative workflows. *(only recent work listed below)*

- Architected scraping and classification automation infrastructure to acquire datasets exceeding hundreds of terabytes for AI model training.
- Partnered with an independent 3D animation studio to evaluate and integrate Microsoft TRELIS and TRELIS.2, developing a suite of control surface POCs in Python and JavaScript.
- Engineered custom ComfyUI nodes in Python and JavaScript, accelerating creative workflows through intelligent masking and inpainting automation.

### SpotOn - Software Engineer

*San Francisco, California - remote; October 2023 - August 2025*

SpotOn provides a cloud-based restaurant management platform integrating POS hardware with back-office automation.

- Led a team to design and ship a comprehensive timeclock software suite using Go, TypeScript, and React.
- Spearheaded the initiative to implement Earned Wage Access (EWA) within multi-tenant payroll, tip, and gratuity systems.
- Scaled international, cross-functional engineering teams by conducting interviews and technical assessments, while defining hiring standards.

## **Alsoa - Contracting Engineer**

*San Diego, California; March 2022 - August 2022*

Alsoa is a cloud-based service that helps businesses understand customer behavior online without using tracking cookies.

- Developed a way to track online user behavior without relying on cookies, using server-to-server technology.
- Created platform in GCP that records detailed customer actions from start to finish, using TypeScript and Python.
- Managed the addition of features that connect to external platforms like Google Ads, Facebook, and HubSpot.
- Built PHP Magento module for server-to-server conversion tracking to integrate with Alsoa tracking platform APIs.

## **YourSix - Software Engineer, Director of Engineering**

*Roseville, Minnesota - remote; May 2020 - June 2021*

YourSix is a company specializing in cloud-based security and surveillance solutions.

- Led and expanded a team of local and international developers to create software focused on physical security services.
- Built an ONVIF-compliant prototype VMS (video management system) capable of various video formats and real-time controls, using advanced web technologies for streaming and audio.
- Collaborated with key project members to design and build a user-friendly SPA (single-page application) using Svelte.

## **InternetIn / ServiceAbility.app - Software Engineer**

*San Diego, California; June 2019 - January 2021*

InternetIn/ServiceAbility.app offered a collection of tools for researching internet quality and availability.

- Created a comprehensive map to show fiber internet availability using various technologies and multiple data sources, including public and proprietary.
- Developed a tool that measures internet quality by location, using data from multiple reputable sources.
- Created a workflow system to streamline complex business and consumer processes, including generating fillable PDFs and integrating with e-signature services.
- Designed an automation tool that simultaneously tests internet serviceability in multiple locations and compiles the results into a unified dashboard.
- Analyzed and recreated Comcast's intricate business pricing structure, creating a real-time pricing tool and API.

## **Ebates Inc. / Rakuten - Senior Software Engineer, DevOps Engineer**

*San Diego, California; 2015 to 2019*

Rakuten is a digital platform that gives users cash-back rewards by sharing the commission from affiliate networks.

- Led the technical aspects of the first PCI DSS compliance audit for payment security standards, creating a robust authentication server used across all of Rakuten's platforms.
- Built a Node.js jobserver that automates product searches and online checkouts to increase the cash-back rewards.
- Collaborated with DevOps and software engineers to migrate our varied services and applications to Amazon Web Services for better scalability and efficiency.
- Employed business intelligence tools to offer valuable insights into system performance and business metrics, using custom data visualizations and smart alerts.