

# KHADEM AVINOOR ALAM

## Software Engineer

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## Core Skills

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- Programming Languages and Frameworks: JavaScript (Vanilla, Next, React, Angular 4/6), HTML5, CSS/SCSS, TypeScript
- Back-End Databases: Node.js, Express.js, MySQL, NoSQL, Firebase, Docker
- DevOps Cloud: AWS (S3, EC2), Heroku, CI/CD Pipelines, Docker
- Tools Technologies: Git, Bash, Prebid.js, Google Ad Manager (GAM/DFP), Google AppScript
- AI Tools: Claude, Cursor, ChatGPT, MidJourney

## Professional Experience

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### 2024 - 2021, Platform Engineer, AdBridg (Remote)

- **Developed and managed** scalable data-aggregation pipelines, automated multi-source roll-ups and reduced processing time by 3%. Doubled debugging efficiency through enhanced logging and increased data reliability with stronger error-handling, reducing user confusion by 9%. Designed and maintained CI/CD tooling, including an in-house deployment queuing system that cut deployment errors by 30% and added real-time state notifications. Delivered new features for core back-end APIs and dependent applications to support platform growth.
- **Optimized** platform performance by refactoring monolithic services into microservices, improving system performance by 4% and scalability by nearly 20%. Streamlined legacy workflows by migrating features from an in-house framework to Next.js, delivering a 10% performance boost and enabling added enhancements while modernizing the platform architecture.
- **Led** migration of legacy features, ensuring smooth transitions, improved performance, and an enhanced user experience. Mentored new DevOps team members on internal systems and analytical tools, streamlining onboarding and boosting team productivity.

### 2021 - 2020, Full-stack Developer, AdBridg (Remote)

- **Developed and enhanced** web application functionality with new client-facing features, increasing user engagement by nearly 10%. Built a scraper tool to collect ads.txt data and validate it against SSP sellers.json records, improving ad placement accuracy and compliance by ~15%. Delivered multiple new features for internal applications, boosting client retention by 14% and increasing Analytics team productivity by nearly 19%.
- **Optimized** deployment workflows by designing a modern CI/CD pipeline with an automated testing suite and updated queuing system, reducing deployment time by ~30% and lowering production bugs. These improvements increased team efficiency, scalability, and cross-team iteration speed.
- **Mentored** junior developers on current and legacy systems, guiding efficient coding, best practices, and testing methodologies. Accelerated onboarding, strengthened technical skills, and improved overall team code quality through hands-on support and knowledge sharing.
- **Conducted testing and debugging** of distributed applications, resolving client- and server-side issues through systematic analysis and optimization. Reduced production errors by 20% and improved system stability and reliability across environments.

## **2020 - 2019, Junior Developer, AdBridg (Remote)**

- **Spearheaded client-facing application development:** Built and launched a new front-end client application using a custom in-house framework, improving client satisfaction and usability.
- **Developed in-house analytics tool** for data visualization using Plotly.js, enabling stakeholders to make data-driven decisions 20% faster.

## **2019 - 2017, Junior Front-end Developer, Fizz Design Corp. (On-site)**

- Built web applications for clients from scratch or as per Graphics Designers specifications. Additionally built static - single and multi page applications - with whichever framework best suited clients' needs.
- Integrated data structures to generate dynamic web pages.
- Implementing more accessible web pages as per WCAG 1.0 specifications.

## **Projects**

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### **Custom MVC, AdBridg (Owned 2020-2024)**

- Lead and developed an Model View Controller framework for a web app for both Customers and inhouse DevOps.
- Technologies used: Git, CloudFront, Plotly.js and Vanilla JavaScript
- More details: <https://www.khademalam.com/projects#custom-mvc>

### **CI/CD Pipeline, AdBridg (Owned 2020-2024)**

- Built a CI/CD pipeline from concept to production, combining existing and new systems.
- Technologies used: Bash, Docker, Git, Jasmine, MySQL, Next.js, Redis, and more.
- More details: <https://www.khademalam.com/projects#ci-cd-pipeline>

### **Change Visualization UI, AdBridg (Owned 2020-2024)**

- Built a git-like UI for reviewing changes between deployments.
- Technologies used: Custom MVC and Vanilla Javascript
- More details: <https://www.khademalam.com/projects#git-like-diff>

### **Spreadsheet-Style Editor, AdBridg (Owned 2020-2024)**

- Implemented a google sheet like user experience in Custom MVC framework.
- More details: <https://www.khademalam.com/projects#google-sheet-features>

### **Ads.txt Validator, AdBridg (Owned 2020-2024)**

- Developed a crawler that validates a publishers' ads.txt file(s) per IAB guidelines and cross-references domains from the sellers.json file(s).
- Technologies used: Bash, Cron Job, Git JavaScript
- More details: <https://www.khademalam.com/projects#ads-txt-validator>

## **Education**

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2017, Bachelor's in Computer Science, York University