**Kyoseong Ku (Austin)**            kyoseongku@gmail.com | linkedin/kyoseong-ku | kyoseong.com

Primarily a TypeScript and back-end engineer with 7+ years of experience, who designed and developed solutions from day one. Open to relocation and working on-site. US citizen, currently living in Dallas, TX.

**Toolbox**

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|---|---|
| Amazon Web Services | API Gateway, CloudWatch, CDK, CloudFormation, Connect, DocumentDB, DynamoDB, EC2, ECS, IAM, Lambda, Route 53, S3, SNS |
| Google Cloud Platform | BigQuery, Cloud Functions, Kubernetes, APIs (Drive, Gmail, Identity, Maps, Operations Research Tools, Text-to-Speech, Translation, Vision) |
| APIs & etc | Docker, Firebase (Firestore, Functions), Material UI, MongoDB, OpenTelemetry, PostgreSQL, React, Redis, SendGrid, Stripe, Swagger, Twilio (SMS, Video), web3.js, WebRTC, WebSockets |
| Testing & QA | Jest, Mocha with Chai, Sinon; Golang's testing package; Selenium |
| Other languages | Assembly, Bash, C, C++, Java, Go, Python, Rust, Solidity |

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**Mapbox** (mapbox.com) | Senior back-end engineer            Sep 2023 - Present

- Helped design and develop the service that allows security-focused customers to retain control of their proprietary data while utilizing Mapbox's web-based computational products.
- Designed and developed an internal knowledgebase AI assistant with Slack as the user interface.
- Provided bug fixes and updates to multiple services.

**Alto** (ridealto.com) | Senior back-end engineer            Dec 2021 - Aug 2023

- Helped design and develop the shift scheduling service as the sole back-end engineer.
- Contributed to several services by adding new features, bug fixes, tests, tracing, insightful logging, and alerts.
- Started and maintained an engineering support handbook to decrease incident resolution times.
- Mentored junior developers to ensure consistent architecture and codebase.

**SuperCare Health** (supercarehealth.com) | Senior full-stack engineer            Feb 2017 - Dec 2021

- Designed, developed, tested, and provided documentation for the following projects:
    - Back-end service supporting digital signing capabilities, including on-demand dynamic PDF generation,

and a full-stack tool enabling the staff to create signable documents.
  - Full-stack watchdog monitoring in-house web apps across 20+ servers, a status dashboard with real-time log streaming capability, and email and text alerts for crashes, freezes, and resource utilization.
  - Internal and customer-facing notification service on a serverless architecture in Go that sends emails, texts, and faxes for various events.
  - Consolidated internal authentication into a service and provided front-end and back-end middlewares.
  - Dashboard displaying real-time and historical locations of the company's delivery drivers on a map.
- Significant contributions include:
  - Created React components and integrated AWS Connect into the core internal web app, enabling staff to receive calls and view calling customers' documents and information in one screen.
  - Migrated MongoDB from on-premise servers to replica sets on AWS EC2s, then again to DocumentDB.
  - Migrated web apps from on-premise servers to AWS and set up failovers in GCP.
  - Built a background job that converts scanned documents and inbound faxes into PDFs, uploads them to appropriate Google Drive folders, and sends email and/or text alerts.
  - Created mass outbound IVRs and collaborated with analysts on models and ETL of IVR responses.

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**Dylect** | Startup attempt

Developed a full-stack, peer-to-peer video chat web app using WebRTC. Integrated a collaborative whiteboard with image sharing, text chat with translation and speech-to-text, and crypto payments via Solana.

**Trading bot** | Personal project

Developed a program with the ability to execute modular trading strategies based on various technical indicators. Included a simulator for testing strategies and a dashboard with graphs and data overlay.

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**University of California, Los Angeles**

Computer Science, BS                                                                 Graduated Dec 2015