

Jeongbong Seo

FULL STACK SOFTWARE ENGINEER

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“Simple is the best.”

Summary

Full stack developer with 10+ years of experience in software development. Expertise in the backend development, the frontend development, the infrastructure design and the task automation including CI/CD. Clearly define business goals first and manage all development stages in an optimal way. Increase work efficiency by automating repetitive tasks to focus on priorities.

Work Experience

BGPworks

Seoul, S.Korea

CTO Dec. 2018 - Jun. 2022 (3.6 years)

Launched B2B inventory management service, called BoxHero, adopted by over 3K clients globally. Raised funding from KaKao Ventures and government (TIPS). Doubled in business revenue every year. (2021 ARR: USD 600K)

- Designed the architecture of the overall service
 - Designed and developed RESTful API servers and backend systems, cross-platform client apps (web/mobile/desktop).
 - Designed and developed several auxiliary microservices: rendering PDF documents, sending bulk e-mails, collecting orders from various shopping mall services, etc.
 - Lean development: defined latent consumer needs and developed minimum viable product.
 - Documented for fast onboarding: setup guides, development guides, learning materials, APIs spec, decision rationales.
- Provisioned infrastructure to streamline fast dev/test/deploy cycle.
 - Provisioned an instant preview environment for each PR: speeded up team collaboration and increased service quality.
 - Utilized PaaS, IaaS, SaaS to increase productivity: Heroku, Vercel, AWS, Sentry, Helpscout, Yandex.Metrica, etc.
 - Infrastructure as code using GitOps.
 - Implemented several heuristic error detection scripts and prevented 1-2 critical bugs a month.
- Tools: Clojure(Script), Postgresql, Node.js, AWS, React, Flutter, etc.

Bagelcode

Seoul, S.Korea

LEAD BACKEND DEVELOPER Jan. 2016 - Sep. 2018 (2.8 years)

Soft-launched and Global-launched a social casino mobile game, Club Vegas (Download: 5M in 2018). Developed RESTful API server and backend infrastructure for mobile social casino app. Streamlined work processes by provisioning CI/CD pipelines and back-office tools. Participated in M&A task worth £18m.

- Developed RESTful API server for mobile social casino app
 - Designed and developed games and features: slot game math models, community jackpots, real-time user ranking, clans, etc.
 - Implemented transactional APIs in a fault-tolerant manner for 20K+ concurrent players.
 - Implemented idempotent request feature: helped the client to achieve the highest possible QoS on pool network condition.
 - Increased test coverage: refactored for better testability, automated game module tests, conducted random stress test.
 - Increased reliability: adopted Typescript to catch trivial bugs, adopted Protobuf to manage API schema.
- Streamlined work processes by developing and provisioning utility services.
 - Deployed multiple server environments using K8S: monitoring, alerting, log aggregation.
 - CI/CD pipelines for App/Server: reduced 90% of troubleshooting efforts.
 - Developed and deployed required productivity tools: VPN, Gitlab, test runner, beta app distribution service, back-office service, etc.
- Participated in M&A task (JPJ Group social gaming business)
 - Identified and analyzed tech stack/team: technical issues/limitations, the role and responsibility of individual developers.
 - Conducted technical feasibility studies on business plans by implementing PoC prototypes.
- Tools: Node.js, Typescript, MySQL, Redis, AWS, K8S, Jenkins, Fastlane, Flutter, React, etc.

Samsung Electronics (Mobile Division)

Suwon, S.Korea

ASSISTANT ENGINEER Feb. 2013 - Jan. 2016 (3 years)

Automated UI test for Samsung Browser. Developed the core of Samsung Mobile Theme Editor.

- Built fully automated UI test pipelines for Samsung Browser
 - Developed UI test framework for Android App and mechanized preexisting 500 test scenarios.
 - Provisioned underlying infra: automated machine management (build machines, test devices), continuous build and test pipelines.
- Designed core architecture and features of Samsung Mobile Theme Editor
 - Developed main features: overall architecture design, rendering real-time preview, generating final artifact (APK), etc.
 - Analyzed Android view rendering and APK build mechanism and ported part of them.
- Tools: Python, C#/WPF, Jenkins, Vagrant, Electron, React, etc.

Projects

Veilduck VPN

CO-DEVELOPER

2014 - Present

- Developed mobile app (Download: 5M in 2022), Chrome extension, back-end server, automated server provisioning, payment modules.
- Released it as a side-project and currently serviced by BGPworks.

Honors & Awards

2011 **Finalist**, DEFCON 19th CTF Hacking Competition World Final

Las Vegas, U.S.A

2011 **Finalist**, Codegate CTF 2011 YUT Quals

Seoul, S.Korea

Education

POSTECH(Pohang University of Science and Technology)

Pohang, S.Korea

M.S. IN PROGRAMMING LANGUAGE

Aug. 2011 - Dec. 2012

- Software Formal Verification using Coq and Boolean BI

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2005 - Aug. 2011

- High GPA (Summa cum laude).

Extracurricular Activity

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER & PRESIDENT AT 2010

Sep. 2005 - Jun. 2011

- Gained expertise in overall security area: Linux system internals, reverse engineering, Web & network security.
- Conducted security check and found critical issues on POSTECH E-mail system as a member of POSTECH CERT. (2006)