# BIN CHOI

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Portfolio | LinkedIn | GitHub | binchoi.github.io
Alternative Military Service [산업기능요원 보충역 – 전직]

## SKILLS

- Go | Echo | Python | Django, Flask | MySQL | NoSQL | Docker | Kubernetes | Java | Spring Boot | Scala | Akka | Git
- AWS | Cloud Computing | CI/CD | Unit Testing | gRPC, Protobuf | k6, JMeter | Loki | Datadog, Sentry, PagerDuty
- Microservices | Distributed Systems | Backend | SDK Development | Korean, English – *Both native proficiency*

## EXPERIENCE

**Software Engineer (Server)**      **BUZZVIL**      **2022.07 | Present**

- Co-led the Backend development of a new flagship offerwall product E2E, from identifying system requirements and dependencies to software implementation, unit/load testing, configuring monitors and dashboards, deployment, and production troubleshooting. Developed using Python, Go, and AWS cloud computing services (e.g., RDS, DynamoDB, ElastiCache, S3, EKS), the offerwall is projected to generate $30 million in revenue in its first year. [Portfolio]
- Designed and developed scalable APIs on enterprise-level microservice applications to provide and enhance features on BuzzAd SDK (iOS, Android, Web) using Go (Echo) and Python (Django, Flask) that handle billions of daily requests.
- Implemented data processing pipeline and cron workflows using Fluentd, Apache Airflow, Amazon Athena, and Argo Workflows to provide publishers with insightful statistics on promotion performance (e.g., bounce rate, engagement rate) and assist their campaign management.
- Optimized the performance and reliability of a critical remote configuration API serving over a billion requests daily by implementing the Probabilistic Early Expiration strategy (xFetch) to prevent cache stampedes, resulting in a 20% reduction of p90 latency from 5ms to 4ms and a 50% decrease in error rate from 0.02% to 0.01%.
- Automated the registration of new microservices to the software catalog platform (Backstage) and introduced guidelines for maintaining technical specifications to centralize software metadata and documentation, resulting in a 70% increase in registered services, improved developer onboarding experience, and reduced communication overhead across teams.

## EDUCATION

**YALE-NUS COLLEGE**      **2019 | 2022**
*BSc (Hons) in Mathematical, Computational, and Statistical Science (conc. in CS)*      **Singapore**
- *Yale-NUS Global Leader Scholar* – merit-based, full scholarship awarded to only eight students since inception.
- *Yale-NUS & Duke-NUS Liberal Arts and Medicine Pathway* – conditional admission to post-graduate MD program.
- Relevant Coursework: Quantitative Reasoning, Introduction to Computer Science, Proof, Data Structures and Algorithm, Probability, Parallel, Concurrent, and Distributed Programming, Introduction to Computer Network, Programming for Data Science [GPA: 4.85/5.00]

**AALTO UNIVERSITY**      **2022.01 | 2022.06**
*Exchange student to the School of Computer Science*      **Helsinki, Finland**
- Completed several master's degree courses in the Department of Computer Science and School of Business.
- Relevant Coursework: Software Engineering, Introduction to Artificial Intelligence, Databases, Machine Learning with Python, Thinking Tools, Impact and Argumentation, Web Software Development [GPA: 5.00/5.00]

### TECHNICAL EXPERIENCE

- **HabitRacer** (02.2022 ~ 05.2022). An immersive habit tracker that transforms habit building into a thrilling competition between friends and family with incentivizing wagers. [Portfolio | Code]
- **Exploration of Parallel, Concurrent, and Distributed Programming** (08.2021 ~ 11. 2021). A guided exploration of Parallel, Concurrent, and Distributed Programming using Scala. [Portfolio | Code]

### ADDITIONAL EXPERIENCE AND AWARDS

- Yale-NUS Global Leader Scholarship: merit-based full scholarship ($56,400 / year)
- Presenter at Yale-NUS Summer Research Symposium [Poster]
- TEDx Host (2019)
- Programming for Education and Leadership in Afghanistan (Founder)
- Valedictorian
- TOEIC: 990 / 990, SAT: 1550 / 1600