HAO FENG

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EDUCATION

University of California, San Diego (UCSD) | La Jolla, CA
M.S. in Computer Science; GPA: 3.86/4 | *Sept. 2021 – Dec. 2022(expected)*

University of Electronic Science and Technology of China (UESTC) | Chengdu, China
*B.E. in Computer Science; GPA: 3.98/4, WAM: 92.1/100, **Ranking: 1/242*** | *Sept. 2016 – July 2020*

PROFESSIONAL EXPERIENCE

Salesforce | San Francisco, CA
Software Engineer Intern - Cloud Infrastructure, Hyperforce | *June 2022 – Sept. 2022*
- Originated an event-driven service that periodically builds and destroys any service with orchestration and stamps a successful set of artifacts, increasing the confidence level of **OaaS (Orchestration as a Service) Cloud Platform**.
- Built the service in **Java**, which submits **RESTful** requests through a web client based on **Reactive Spring** and tracks them with **Amazon SQS**, performing thorough rehearsals of building the services, avoiding **8% ↓** of pipeline failures and powering **630+** Salesforce deployments across multi-substrate (AWS, Azure, GCP, Alibaba, and Blackjack).

Nokia | Hangzhou, China
Full-time Software Engineer, Scrum Master - R&D Center | *Aug. 2020 – June 2021*
- **Led a scrum team of eight members**, originated *Gatekeeper*, a web application powering global team's R&D closed-loop system by automating inspection and maintenance of **20k+** design documents, and hold **end-to-end ownership** of it. **Dived deep and spoke candidly** in the team, **made decisions** about the roadmap, was responsible for communication and commitment with customers from the European team and delivered *Gatekeeper* with high quality and speed.
- Designed the **whole** architecture of *Gatekeeper*, including **servers structure, database design, back-end, front-end, testing and CI/CD**, implemented it with React, Spring Boot and MongoDB, deployed vSphere and Jenkins services and dockerized them, serving **1k+** system engineers at Nokia Networks division with **18k+** improvement suggestions.
- Devised and developed a **RESTful** file transfer proxy in **Java** with **Jersey** and **Tomcat**, opening a channel to extend the scope of authority and providing the foundation for the infrastructure team's products.
- Refactored the daily report-generating scripts interacted with **100k+** Nokia's employees records per day following **Clean Code**, replaced redundant SQL queries with an independent **LDAP** traversal service and introducing reusability and scalability by providing several APIs, reducing the average running time **from 2h to 39s ↓**.

Nokia | Hangzhou, China
Software Engineer Intern - R&D Center | *Apr. 2020 – June 2020*
- Devised a method to optimize workflow by collecting data from Power BI and Gerrit and generating slides automatically, designed a multi-threaded crawler application with **Multiprocessing**, reducing **a man-day ↓** in every two weeks.
- Built workflow toolkits such as HTML automatic generator, email robot, mock testing, DAO helper, authentication module disassembled from **50k+** lines of VBA code, etc., and **promoted them in Nokia's software development team.**

SELECTED PROJECTS

- **Fault-tolerant Cloud Storage System:**
  Constructed a cloud-based Dropbox-like file storage application that synchronizes files via **gRPC** in **Go** and made it fault-tolerant based on the **RAFT** protocol.

- **Online Compiler and PERL:**
  Contributed to an online compiler and REPL of Python which translates source code to **WebAssembly**, collaborated with 40+ developers to implement it in **TypeScript** and designed the memory management module using **static linked list**.

PUBLICATIONS

- *STEAM: Self-Supervised Taxonomy Expansion with Mini-Paths*, accepted by *Proc. KDD*, 2020.

- *Hunt Protagonist of Sentiment: Sentiment Analysis via Capsule Network with Sentiment-Aspect Reconstruction*, accepted by *Proc. DASFAA*, 2021.

SELECTED SKILLS

Programming: Python, Java, Go, C/C++, JavaScript/TypeScript, Shell Script, SQL, HTML, CSS, Matlab, VBA
Tools: Git, Jenkins, Docker, Spring Boot, Jersey, React, MongoDB, SQLite, SQL Server, Tomcat, Nginx, vSphere, AWS