SUNWOO KANG

sunnybd97@gmail.com | Bay Area, CA
My website is #1 Google search result for "computer science resume personal website"

CORE SKILLS

Programming: Python, bash, Typescript/Javascript, Java
AWS services (Lambda, EC2, VPN), React, jQuery, ajax, Docker, Pyramid/Flask
Very flexible to learn new languages / framework / system, have picked up Svelte, and others at work

CAREER EXPERIENCE

Site Reliability Engineer/SWE, Google Cloud   *Oct 2023 - Present*
Google Cloud Platform Technical Infrastructure team
- Streamlined Google Cloud Infrastructure job migrations by dependency optimization, saving 1.5 SWE years
- Maintained highly complex Google Cloud Network control plane system that distributes GCP customer intent with 99.9999% availability

Software Developer Engineer, Amazon   *March 2022 – Oct 2023*
Amazon Ads Third Party Exchange team
- Developed Java & Groovy based Amazon Ads Exchange server that handles millions of requests per second
- Utilized AWS to build distributed systems and microservices architectures, serving global regions
- Owned engineering team effort to deliver complex migration project, ensuring alignment with business goals and technical best practices. Served as the project point of contact to external stakeholder teams.

Halo Health ML & Computer Vision team
- Developed Java & python based health wellness feature powered by state-of-art computer vision algorithm. Worked with AWS Lambda, SageMaker, RDS, VPC, and permission setup.
- Won first place in Halo Hackathon 2022, implementing Minimum Lovable Product within 48hrs

Bioinformatics Engineer, Invitae   *June 2020 – March 2022*
Production software engineering team
- Python code owner for the mainline data transfer pipeline code repository
- Created new dashboard that involved developing flask backend APIs and dynamic frontend UI that has complex visualization plots.
- Maintained web analysis toolkit by monitoring system through Grafana, New Relic, and Splunk
- Served operation oncall duty, mitigating P0 operation crises and developing incident knowledge base

Course Assistant, Stanford University   *September 2020 – December 2020*
Assisted teaching CS145: Data Management and Data Systems
- Part of the teaching team for a course taught by Prof. Narayanan Shivakumar, from Google BigQuery
- Contributed & managed assignments written in SQL and python and set in Google Colab environment

Research Assistant at Stanford Medical Center   *June 2017 – June 2020*
Developed research infrastructure for human metabolome analysis
- Developed data collection pipeline for profiling human breath based metabolome
- Standardized data for developing biomarkers primarily using Principal Component Analysis (PCA)
- Implemented state of art machine learning algorithm based on ensemble classifier approach to predict subject genotype based solely on breath metabolome scan, boosting 95% accuracy

EDUCATION

Stanford University   *September 2016-March 2021*
2021 M.S. in Computer Science, concentration in Artificial Intelligence
2020 B.S. in Biomedical Computation with Honors, concentration in Simulation
Korea Presidential Science Scholarship for Four Years