

# Kenneth Wong

Mountain View, CA | (765)-714-3929 | [cankennethwong@gmail.com](mailto:cankennethwong@gmail.com) | [LinkedIn](#)

## WORK EXPERIENCE

<b>Software Engineer</b>	<b>TikTok</b>	<b>Aug 2023 - Present</b>
<ul style="list-style-type: none"><li>Tech owner of multiple high-visibility, high-impact projects across the organization aimed to increase platform DAU and 1min+ video-related metrics. Coordinated between FE, BE, QA, DS, and PM teams to align product requirements and key user metrics in A/B experiments.</li><li>Owner of multiple cross-regional, HA core microservices, maintaining a p99 ~99.8% availability during peak traffic of &gt;500QPS.</li><li>Led a team of 8 engineers to build a BE-driven resource management platform that reduces PM workload while standardizing team SOPs. As BE tech lead, led weekly meetings with key stakeholders, addressing project risks, project scoping, and milestone alignment.</li><li>Architected and implemented a 4-stage engine to serve server-driven promotions to promote new TikTok Creator app, driving 2,200,000 users to the download page and converting 535,000 users to the new app.</li><li>Designed a Hive table MQ insertion batch job for user cohorting, which was a key component to displaying the TikTok Studio entrance on eligible users' profile pages, resulting in a growth of 4,100,000 DAUs.</li><li>Enriched Tiktok Studio functionalities by implementing RPC services for user post/comment management, boosting creator publish rates by ~70000 pub/day.</li><li>Engineered an internal bot utilizing serverless functions to improve team oncall process, improving service SLA through enhancing team incident response. With the bot, we successfully mitigated a P0 incident.</li></ul>		
<b>Software Engineer, Intern</b>	<b>TikTok</b>	<b>May 2021 - Aug 2022</b>
<ul style="list-style-type: none"><li>Improved efficiency and transcoding latency of video processing workflow by 35% by implementing a serverless function that optimizes RPC calls made in transcoding workflow.</li><li>Reduced 5x unnecessary downstream traffic RPC calls to a core service by improving the code quality of microservices.</li><li>Estimated to increase JSON parsing speed by 60% by migrating existing JSON parsing library to Sonic.</li><li>Built CI/CD pipeline for intern project for rapid deployment of serverless function to production.</li></ul>		
<b>Software Engineer</b>	<b>Merck</b>	<b>Aug 2021 - July 2022</b>
<ul style="list-style-type: none"><li>Solved a double labeling issue within Merck facilities by developing a web application that has an in-house QR-code generator and QR-code scanning function for test vile and test sample lookup.</li><li>Designed a platform for scientists to batch upload .csv files containing legacy sample data and parse it and store it into AWS S3 and pipeline files through Databricks for data visualization.</li><li>Increased scientist's sample labeling efficiency by 50% within Merck Facilities through the web application.</li><li>Integrated AWS PostgreSQL as RDS and AWS S3 bucket for data redundancy of CSV files and forum inputs.</li><li>Containerized application with docker and deployed it on a Kubernetes orchestrator.</li></ul>		
<b>Software Developer</b>	<b>Purdue Agriculture</b>	<b>Oct 2021 - Dec 2021</b>
<ul style="list-style-type: none"><li>Used Svelte, Typescript, and Tailwind CSS to build the front-end of web application.</li><li>Fixed bugs related to site navigation to provide farmers with a smoother user experience.</li></ul>		
<b>Web Developer, Intern</b>	<b>Alco Holdings Limited</b>	<b>Jun 2021 - Aug 2021</b>
<ul style="list-style-type: none"><li>Utilized NodeJS, ReactJS, HTML, CSS, Javascript to create companies' websites to display latest products.</li><li>Daily standups with CEO and marketing team to ensure the website encapsulates the goal of the product</li></ul>		

## EDUCATION

<b>B.S.C in Computer Engineering</b>	<b>Purdue University</b>	<b>May 2023</b>
--------------------------------------	--------------------------	-----------------

## SKILLS

Python, Javascript, C, GO, SQL, HTML, CSS, ReactJS, NodeJS, Flask, Svelte, Express, SQLAlchemy, ORM, Rest API, Git, Linux, SQL, Redis, MongoDB, A/B testing, Microservices, AWS, Docker, RPC, Grafana, Elastic Search