

Tim Hung

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WORK **B Bloomberg L.P.** New York, NY

Senior Software Engineer — Autocomplete (*C++, Python, Kafka, Redis*) **05-2019 – PRESENT**

- Led project to scale up the system for ranking results based on personalized real-time hits
 - Architected low latency data pipeline for user hits using Kafka, DB sinks, and multi-level caching
 - Sharded architecture across distributed cluster to concurrently handle 2k+ msg/s
 - Reduced E2E latency to <50ms including investigating and uncovering a bug in Comdb2
 - Devised a method to rank results by aggregating hits with exponential decay
 - Built telemetry framework to monitor throughput, latency, and system health
- Designed configurable self-service system to validate autocomplete data ingestion
- Improved core autocomplete engine query tokenization algorithms
- Envisioned and built MVP for tool to visualize/replay past user queries in real-time
- Worked to improve developer experience and be involved outside of engineering projects
 - Modernized legacy codebase to Python 3.10 and C++17
 - Maintained clear and concise documentation and comprehensive unit and integration tests
 - Active in on-call rotation, code reviews, client tickets
 - Heavily involved in recruiting: speaking on panels, D&I, interviewing, mentoring

Software Engineer — Data Intelligence (*Python*) **10-2018 – 05-2019**

- Integrated new financial data sources by implementing high performance ingestion daemons
- Automated large scale data migrations
- Enriched internal machine learning infrastructure tools with improved visualizations

Software Engineering Intern — Data, Web, & Analytics (*JS, C#, Angular*) **06-2017 – 08-2017**

- Leverage global geolocation data to refine search functionality
- Render web and mobile responsive map views using Angular

 **Microsoft** Bellevue, WA

Software Engineer / Product Manager Intern — Cortana (*Azure, C#*) **05-2016 – 08-2016**

- Developed platform to extend Cortana compatibility with over 340 new services

SKILLS **Languages:** Python, C++, JavaScript, Java, Bash, SQL
Tools: Kafka, Redis, Git, Vim, Grafana, Humio, Agile, GNU/Linux, \LaTeX
US Citizen, fluent in English and Mandarin

SCHOOL **Binghamton University, SUNY**, B.S. Computer Science, B.A. Mathematics **2013 – 2018**
Lyle & Dorothy Feisel Scholarship, University Scholars, *IME* Math Honor Society, Dean's List
ACM Student Chapter Chair and ACM ICPC Coach, HackBU (Hackathon) Organizer
Course Assistant for CS140 Object Oriented Programming

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