

Hubert Wong

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📍 Foster City, CA

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EXPERIENCE:

Software Engineer, Visa

Jan 2023 - Present | Foster City, CA

- Working as a Full Stack Engineer primarily focusing on creating/maintaining internal monitoring applications and features.
- Languages/Frameworks: Java, TypeScript, C++, AngularJS, NodeJS, React, MySQL, HTML, Python, CassandraQL

Internal Application Manager (IAM)

- Established an improvement in user experience and brought 50% more users in the past year onto this application to use in business performance metrics tracking.
- Improved application performance by lowering server CPU usage by 20% while accommodating users onboarding daily.
- Established new API calls and file transfer protocols between existing applications onto the monitoring application to centralize performance metrics across different services.
- Created new data connections using data batch processing to handle new downstream flows of system performance data from incoming teams.

Email Alerting System

- Created a company-wide configurable alerting system that runs parallel to services across 4 data centers worldwide with 8 different servers each.
- Developed alerts that will track and monitor the system performance of services, send email alerts to configured owners, and trigger repair scripts when thresholds have been exceeded to prevent extended periods of incorrect data flow.
- Reduced incorrect performance metrics by 75% using instant alerts and automated scripts, compared to manual checks and manual script deployment.

Transaction Metrics Display

- Created a new feature on the IAM to parse hundreds of millions of transaction data daily to analyze and generate readable analytics for use.
- Built a new connection from 32 different MySQL databases worldwide to aggregate transaction data to a single CassandraQL database.

Software Engineer Intern, Isuzu Technical Center of America

Jan 2021 - Dec 2021 | Ann Arbor, MI

- Created a vehicle testing and data visualization GUI utilizing the AWS S3 data buckets to house and communicate vehicle testing data.
- Developed data transfer connections utilizing AWS IoT Core data connections between 8 autonomous vehicles to reduce the delay between remote controls.
- Languages/Frameworks: Python, PyQt5

EDUCATION:

University of Michigan, BSE Computer Science

Dec 2022 | Ann Arbor, MI

- Relevant Coursework: Data Structures, Discrete Math, Algorithms, Web Systems, Databases, Machine Learning, Web Security and Frameworks
- GPA: 3.34

PROJECTS:

Video Game Database

- Created a personal database that would house the different video games that I have in my collection.
- The database backend would sort input by detecting keywords to describe the game genre by implementing the kNN algorithm model based on fed training data.
- Languages/Frameworks: Javascript, Python, Java, Node.js, MySQL

SKILLS:

- Languages: Python, C/C++, Java, HTML, CSS, JavaScript, TypeScript
- Frameworks: AngularJS, NodeJS, React