Brandon Duval Benn 班伯恩

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Skills	
Programming: Ruby, Python, Javascript, Go, Bash, SQL	
Frameworks: Ruby on Rails, Nodejs, VueJS, Flask	
Tooling: Git, Linux, POSIX, MySQL, Postgres, Redis, Elasticsearch, Docker, Kubernetes	
Languages: English (Native), Chinese (Proficient)	
Experience	
Software Engineer, Faria Education Group – Taipei, Taiwan	2022 – Present
 Develop and maintain data-centric web applications 	
 Write, optimize and analyze in-application database queries 	
 Implemented business logic and ETL Solutions for sales dashboards 	
 Implemented internal systems and customer facing UIs 	
Software Engineer, Codegiant – Taipei, Taiwan	2020 – 2021
 Implemented secret store for API tokens by using column level encryption in DB 	
 Write, optimize and analyze in-application database queries 	
Contributed to serverless function deploy and uptime monitoring service in containers using Docker.	
 Implemented GraphQL and REST endpoints deployed in microservices on Kubernetes. 	
 Research and Teaching Assistant, National Tsing Hua University – Hsinchu, Taiwan EE231001 Introduction to Programming: tutored and graded C++ programming assignments COM533500 Network Security: tutored and graded cryptography and networking concepts Implemented database query layer on HyperLedger Fabric database to optimize blockchain query perfor 	2020 – 2022 mance.
Projects	
Immutable Records (<u>https://github.com/BrandonBenn/immutable-records</u>)	
 Implements tamper proof documents by using one-way hash in a merkle-tree. 	
• Given a directory of files, if any of the files in the directory was tampered with, the verification will give a	a warning.
Uptime Monitor (<u>https://github.com/BrandonBenn/uptime</u>)	
 Implements HTTP resource uptime monitor by asynchronous background tasks that are taken from a que results in a database. 	eue, then stores
 Implements dashboard Web UI for CRUD operations on HTTP resources to be monitored. 	
Privacy in IoT Supply Chain Systems using a Consortium Ring Signature Agreement	
 Proposes a method for sending sensory information from IoT devices securely without revealing location).
• Implements data integrity and authenticity while preserving spatial privacy using ring signatures.	
Lightweight Virtual Machine Optimization	
 Increase QEMU file data buffer size for faster access to storage bandwidth. 	
 Enable readahead hint: Use fadvise with a sequential attribute to optimize reading from the snapshot. Optimize RAM state layout: Save contiguous non-zero RAM pages larger than 500 Kip tegether to avoid a 	202010
 Optimize RAM state layout: Save contiguous non-zero RAM pages larger than 500 KiB together to avoid r overhead during loading. 	петногу сору

Education

National Tsing Hua University, Hsinchu – Msc Electrical, Electronics and Communications Engineering	2020 - 2022
National Tsing Hua University, Hsinchu – Bsc Computer Science	2015 - 2019
National Taiwan Normal University, Taipei – Chinese Language Enrichment Program	2014 - 2015