

# Wilson Zhong

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## SUMMARY OF QUALIFICATIONS

- 7 years of experience in enterprise application development, with a proven track record in the information technology and banking sectors. Proficient in JavaScript and TypeScript, with hands-on experience using AWS services. Skilled in driving enterprise product deliveries and providing on-call support for production incidents.

## TECHNICAL PROFICIENCIES

- Languages: *Javascript, Typescript, Python, Java, SQL, NoSQL, HTML, CSS*
- Database/Storage: *AWS, MySQL, PostgreSQL, Redshift, MongoDB, SQLAlchemy, Dynamodb*
- CI/CD: *Git and GitHub, Ansible, Jenkins, Bitbucket*
- Frameworks and libraries: *Django, ReactJS, Bootstrap, ExpressJS, Nodejs, Kafka*
- Monitoring tools: *Dynatrace, ELK, Mantis, Sentry, ElasticSearch, Dynatrace, Cloudwatch, Grafana*

## WORKING EXPERIENCE

### Senior Backend Developer - BMO Bank, Toronto, Ontario

Aug. 2021 - Now

- Led the migration of legacy on-premise banking systems to a modern **AWS CDK-based** cloud infrastructure using **JavaScript/TypeScript**, significantly improving deployment efficiency and scalability.
- Developed and maintained high-performance backend **RESTful API** services built with **Spring Boot**, enabling high-volume financial transactions and mission-critical banking operations in partnership with cross-functional teams.
- Designed and implemented cloud-native architectures using AWS services such as **Step Functions, API Gateway, Lambda, and DynamoDB** to deliver highly available, fault-tolerant, and seamlessly scalable solutions within a regulated financial environment.
- Worked closely with security and compliance teams to implement encryption standards, **OAuth** integrations, **AWS Cognito-based** auditing, and fine-grained access control in alignment with strict banking requirements.
- Optimized system performance and resilience by applying best practices with **SQS, Kafka**, and code-level enhancements to support real-time processing and event-driven financial workloads.

### Full Stack Developer - iFocus, NorthYork, Ontario

June. 2020 - June. 2021

- Built and managed application and **Jenkins** servers on **AWS EC2** instances.
- Upgraded and enhanced cloud-based APIs within systems developed using **Node.js** and **React.js**.
- Delivered and maintained cross-platform mobile applications using hybrid frameworks.
- Redesigned and updated user interfaces for both desktop and mobile applications **web technologies** and responsive design frameworks.
- Developed and implemented business logic and **RESTful APIs** using the **Express.js** framework.

### Software Engineer - Trackrevenue, Markham, Ontario

Aug. 2018 - Jun. 2020

- Designed and implemented scalable UI for web services and mobile clients using **AngularJS** and implemented file storage with **Python** and **AWS**
- Created views for different roles with permissions using **AngularJS** directives and **Django** serializers and middlewares
- Developed and maintain **RESTful** api, database *migrations* by using **Django** ORM and api servers
- Maintained CI/CD process employed in **Jenkins** with **Ansible**
- Built scalable and efficient database schemas on AWS **redshift** and **MySQL**, optimized click traffic by storing recent data within a **Redis** cache
- Working on task-queue system by employing **Celery** and **RabbitMQ** to handle distribution of asynchronous tasks on workers across threads

### Developer – NewStar Media, Markham, Ontario

Aug. 2017 - July. 2018

- Collected and extracted analytical data from combined sources, analyzed to understand customer credit and behaviors insight, created propensity models
- Set **Kafka** distributed scrawling project structure and utilized superb technical knowledge of cron scripts, **Python scrapy, splash, elasticsearch** and other tools to optimize scraping speed and efficiency
- Parsed, cleaned and reorganized raw html and **CSS** data, saving in **PostgreSQL**, and using **Nodejs** to interact with the database, writing query, and *API documentation* and serializing, feeding frontend and **Restful** API usage
- Build and deployed backend server with **ExpressJS**, Knex and hosted on **AWS EC2, RDS**

## LICENSES & CERTIFICATIONS



AWS Certified Cloud Practitioner Credential ID: 93614H3C3B14QD3G

## EDUCATION

Master of Electrical and Computer Engineering – University of Windsor, ON

Jan. 2015 – Dec. 2016