

# RAY HONG

Singaporean

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## PROFESSIONAL PROFILE

Junior Software Developer with strong foundations in **server-side development, backend APIs, databases, and programming fundamentals**, supported by formal training in **Full-Stack Development** and a **Distinct in BCG RISE Business & Data Analytics (BDA)** professional certification. Experienced in building, testing, and integrating applications using **JavaScript, Python, C#, Java, and SQL**, with hands-on exposure to RESTful APIs, frontend interfaces, and system-level logic. Analytical, adaptable, and motivated to contribute as a **Junior Software Developer** in a professional engineering team.

## CORE SOFTWARE ENGINEERING CAPABILITIES

- Backend and server-side application development (Node.js, REST APIs)
- Database-driven application design and CRUD operations
- Frontend development using HTML, CSS, and JavaScript
- Input validation, debugging, and error handling
- Application testing and workflow verification
- Automation and scripting for data processing and system tasks
- Clean, maintainable coding and basic MVC architecture concepts

# TECHNICAL SKILLS

**Languages:** JavaScript, Python, C#, Java, C/C++, SQL, HTML, CSS

**Backend & Concepts:** REST APIs, CRUD operations, MVC (basic), debugging, validation

**Databases:** SQL Server, MySQL

**Tools:** Visual Studio Code, Git, GitHub, PyCharm, Jupyter Notebook, Power BI

**Operating Systems:** Windows, macOS, Linux

# SELECTED PROJECTS (ACADEMIC & APPLIED)

(*Ngee Ann Polytechnic – Diploma in Full-Stack Development & BCG RISE*)

## Server-Side & Backend Development

- Built RESTful APIs using **Node.js, Express, and SQL**, supporting CRUD operations and validation logic
- Tested and debugged API request/response flows and database interactions

## Database Design & Development

- Designed relational database schemas and implemented SQL queries (JOIN, INSERT, UPDATE, DELETE)
- Integrated databases with backend applications for persistent data storage

## Frontend Development

- Developed responsive frontend interfaces using **HTML, CSS, and JavaScript**
- Integrated frontend components with backend APIs for dynamic data rendering

## Programming Fundamentals

- Implemented modular programs using **Python, Java, C#, and C/C++**
- Applied control structures, functions, and clean coding principles

(*Project implementations and code samples available on GitHub.*)

# **PROFESSIONAL EXPERIENCE**

## **U3 Infotech Pte Ltd**

### **System Engineer | Mar 2024 – Jun 2025**

- Supported and maintained production applications and systems
- Assisted with application deployment, configuration, and incident resolution
- Used scripts to streamline operational workflows
- Collaborated with teams to ensure system reliability and service continuity

## **JK Tech Pte Ltd**

### **IT Engineer (Systems & Applications) | Jul 2022 – Jun 2023**

- Supported web-based and desktop applications
- Automated system and application workflows using scripts
- Troubleshoot application and data-related issues
- Assisted in application updates, migrations, and deployments

## **Micro 2000 Services / Technologies Pte Ltd**

### **Technical Support Engineer | Apr 2022 – Jun 2022**

- Installed, configured, tested, and updated software applications
- Performed application and system testing post-deployment
- Assisted with data migration and system provisioning

## **SLA**

### **Tech Refresh Engineer | Dec 2021 – Mar 2022**

- Installed and configured operating systems and applications
- Applied patches, updates, and security configurations
- Diagnosed and resolved system and application issues

## **EDUCATION & CERTIFICATIONS**

### **Ngee Ann Polytechnic**

#### **Diploma in Full-Stack Development**

Key Areas: Programming Fundamentals, Object-Oriented Programming, Database Design & Development, Server-Side Development, Frontend Development, Software Engineering, Agile, Software Testing, Industry Practicum / Capstone

### **Singapore Polytechnic**

#### **Computer Engineering – Job Specialisation Certificate**

#### **BCG RISE – Business & Data Analytics**

#### **Professional Certification (Distinction)**

## **ADDITIONAL STRENGTHS**

- Analytical and critical thinking
- Clean, maintainable coding practices
- Fast learner with high adaptability
- Clear technical documentation and communication skills
- Comfortable explaining technical concepts to non-technical stakeholders