

# CHRISTIAN B. VILLAFUERTE

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## Profile Summary:

Software Engineer with hands-on experience in full-stack development (Java, Python, React, Spring Boot, Django, FastAPI). Skilled in building scalable web apps, designing RESTful APIs, and deploying cloud-based solutions on AWS. Strong foundation in SDLC, Agile, and QA, with recent experience in AI/ML and Generative AI projects.

## WORK EXPERIENCE

### Software Engineer I

April 2024 – September 2025

Tsukiden Global Solutions Inc.

**Tech Stack:** Java, Python, React, Spring Boot, FastAPI, MySQL, PostgreSQL, AWS, Postman, Bubble.io, TensorFlow, Keras, Scikit-learn, MediaPipe, Google Colab, Flutter, Firebase

- Developed internal applications using **Java Spring Boot or Python (Django/FastAPI)** and **React**, integrating with **MySQL** and **PostgreSQL** databases to build scalable, **RESTful** backend services.
- Completed internal training on **Spring Boot** and **Microservices architecture**, focusing on scalable backend systems.
- Designed and implemented **RESTful APIs** to support frontend-backend integration.
- Built a **Java-based messaging app** supporting both **TCP/UDP** protocols, showcasing skills in **multithreading** and **socket programming**.
- Created a **no-code office room booking system** using **Bubble.io**, streamlining workspace scheduling with an intuitive UI.
- Explored serverless deployments with **Serverless Framework** on AWS Lambda, optimizing cost and scalability for modern cloud-based systems; experimented with DynamoDB for NoSQL design
- Undertook **AI/Machine Learning training**, developing a **Color Season Analyzer app** by training models with **Scikit-learn**, **TensorFlow** and **Keras**; applied **Mediapipe** for facial feature extraction, leveraging **Google Colab** for experimentation, and building the UI with **Flutter** and **Firebase** for authentication and database.
- Engaged in **Generative AI training**, utilizing **AWS services** and FastAPI to build a **test automation tool** that generates test scenarios, test cases, and **Robot Framework scripts**; developed the web UI with **React** to streamline usability.
- Conducted practice automation scripts using **Selenium** during QA training.

### Project: Software Monitoring Tool

**Role:** Software Developer

**Tech Stack:** Python, Django, PostgreSQL, HTML, CSS, JavaScript, Docker, SMTP, Linux, Git, OpenProject

- Worked within an **Agile Scrum** development environment, actively participating in **sprint planning, stand-ups, and sprint reviews**

- Contributed to feature development for the **Software Monitoring Tool**, including **CSV-driven database automation** (updates/deletions), **bulk data manipulation**, and **ETL/data migration scripts** to enhance backend functionality.
- Implemented **UI component updates** based on requirement needs and maintained the **user guide** to reflect interface changes and new features.
- Created **Integration Test Specs (ITS) / IT POVs** to support integration and regression testing.
- Created demo videos to present new features and participated in sprint ceremonies to ensure smooth team collaboration and delivery.
- Utilized **OpenProject** for task management and sprint tracking, contributing to smooth project workflows.
- Handled **GitLab** tasks such as creating branches, submitting merge requests (MRs), and merging source code for new feature implementations.
- Utilized Docker, SMTP, and Linux environments (via WSL) for backend testing and server environment access

#### **Project: Travel Booking App**

**Role:** QA Engineer

**Tools:** Jira, Confluence, Excel, Redmine, FastStone

- Created **Test Patterns, Matrices**, and **Test Cases** for **manual UI and functional testing** of a **cross-platform** travel app.
- Performed backend **test data management** and validation.
- Investigated and reported **bugs** using **Jira**.
- Documented testing processes, results, and bug reports in **Confluence and Redmine** for team collaboration and knowledge sharing.

#### **Design Engineer Trainee**

**October 2023 – April 2024**

Tsukiden Global Solutions Inc.

**Tech Stack:** React, Spring Boot, MySQL, Bootstrap, Git (GitHub), Postman, Jira

- Completed **C Analysis/Inspection** and **Software Testing** in-house training program.
- Designed and developed a **full-stack e-learning web application** as part of the training, covering the entire **SDLC process**. The application includes features for course management, user progress tracking, content delivery, and certificate issuance.
- Engaged in **System Requirement Analysis** tasks.

#### **Dev & Tech Associate (Intern)**

**June 2022 – August 2022**

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- Created and executed Test Cases for **User Acceptance Testing (UAT)** on a web-based e-commerce app, including Android and iOS platforms.
  - Designed mockup UI/UX for the e-commerce app using **Figma**
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## EDUCATION

### **La Consolacion University Philippines**

**2019 - 2023**

Bachelor's degree, Computer Engineering  
2nd & 3rd year, Dean's Lister: GPA 1.5

### **Senior High School, STEM Strand**

**2017 - 2019**

With Honors, GPA: 94

### **Dr. Felipe De Jesus National High School**

**2013 - 2017**

Junior High School

With Honors, GPA: 94

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## TECHNICAL SKILLS

**Programming Languages:** C, JavaScript, Java, Python

**Web Technologies & Frameworks:** HTML, CSS, Bootstrap, Tailwind, React, Spring Boot, Spring  
Microservices, Django, FastAPI, REST API, Flutter

**AI/ML Frameworks & Libraries:** TensorFlow, Keras, Scikit-learn, MediaPipe

**Databases:** MySQL, PostgreSQL, DynamoDB - AWS

**Cloud Platforms:** AWS (Lambda, API Gateway, Cognito, S3, CloudWatch, Bedrock, SQS), Serverless  
Framework, Docker, Linux (Ubuntu via WSL), Firebase, Google Colab

**Version Control Systems:** Git, GitHub, GitLab, Tortoise SVN

**Testing & QA Tools:** Selenium, Robot Framework, Manual Testing, Requirement Analysis, Test Case  
Creation, Bug Reporting, Jira, Confluence

**Tools & IDEs:** VS Code, IntelliJ IDEA, Visual Studio, Postman, Swagger, Bubble.io, MySQL Workbench,  
pgAdmin

**Other Tools:** SMTP (email processing), Redmine, FastStone, WinMerge, Araxis, OpenProject

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## REFERENCES

- References available upon request.