

KAVINDU HARSHITHA

Full Stack Developer

+61 45 1570 605 @ kavindu@apexkv.com www.apexkv.com Adelaide, South Australia

SKILLS

[Python](#) [Django](#) [JavaScript](#)
[React.js](#) [Node.js](#) [MySQL](#) [Neo4j](#)
[MongoDB](#) [Docker](#) [Git](#) [API](#)
[Design](#)
[Microservice Development](#)
[Problem-Solving](#) [Teamwork](#)

LANGUAGES

- English
- Sinhala

FIND ME ONLINE

 LinkedIn
 Github
 Portfolio

REFERENCES

Nilanka Seelawardhana
Senior Project Manager
Eight25Media
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Bruno Pasqualini
Full Stack Web Developer
IPM Sistemas
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SUMMARY

Innovative and self-driven Software Engineering student with 5+ years of programming experience, specializing in designing scalable web applications and message-driven architectures. Proficient in microservices development, **RabbitMQ** integration, and advanced database technologies like **Neo4j** and **PostgreSQL**. Excels in **problem-solving**, **quickly adapting to new technologies**, and delivering efficient, impactful solutions in fast-paced environments. Passionate about leveraging technical expertise to tackle challenging software engineering problems and contribute to cutting-edge projects.

EDUCATION

Bachelor of Software Engineering

[University of South Australia](#)

- Acquired expertise in SQL database design, network configuration with CISCO technologies, and full-stack web development.
- Earned High Distinction in **Data-Driven Web Technologies** and **Data Structures Essentials**, excelling in optimizing software performance.
- Developed advanced skills in implementing algorithms and object-oriented programming, achieving top marks in **Object-Oriented Programming**.

BSc. Electronic and Telecommunication Engineering

[CINEC Campus Sri Lanka](#)

- Acquired foundational knowledge in circuit design, electronics analysis, and control system principles.
- Developed skills in robotics programming, troubleshooting electronic systems, and automating processes through control theories.
- Gained hands-on experience with key technologies in engineering and automation.
- Achieved a **3.4 GPA** prior to transferring to the University of South Australia.

PROJECTS

Facebook Clone Project

Developed a highly scalable social media platform inspired by Facebook, using a microservices architecture to ensure modularity and high performance.

- Built ~70% of Facebook's core functionality**, including user authentication, post creation, comments, likes, friend suggestions, real-time chat.
- Enhanced user interaction** through advanced features like mutual friend counts for friend requests and a recommendation system powered by Neo4j for personalized post suggestions.
- Leveraged RabbitMQ** for efficient inter-service communication, enabling real-time data synchronization across microservices.
- Designed and deployed using **Django**, **PostgreSQL**, **Neo4j**, **Redis**, and **Docker**, ensuring scalability, low latency, and seamless integration.
- Designed and implemented a **NGINX**-based **API Gateway** to route frontend requests to appropriate microservices, ensuring seamless communication and efficient request handling.

ApexMQ Project

Developed a highly optimized Django library to integrate RabbitMQ seamlessly into Django applications, streamlining message-driven architectures and enhancing system reliability.

- Simplified **RabbitMQ** connection, channel, and queue management with automatic retries and graceful reconnection.
- Designed **dynamic producers** for **multi-queue publishing** capabilities, and optimized thread-safe consumer operations.
- Enhanced connection reliability, addressing critical multi-threading challenges for high-concurrency environments.