Kya　カイヤ

https://kya.garden | talk@kya.garden

ABOUT

Nine years experience in low-level software development and DevOps. **Five** years experience in leadership. Seeking a Tokyo-based role. British Citizen, native English speaker.

Strong experience in leadership roles, project ownership and client communication.

Technical expertise in C++, C, C#, full stack web, Unix-like systems, cloud computing platforms.

Variety of personal projects with computer graphics, video games, community event management, web design and mobile applications.

EDUCATION

MCOMP GAMES COMPUTING
University of Lincoln
2011 – 2015
1st at Bachelor's, Merit at Master's

MODULES
Computer Graphics
Games Programming
Computer Vision & Robotics
Social Computing

BTEC INTERACTIVE MEDIA
New College Stamford
2009 – 2011

Adobe Suite • Photography •
Video production • Animation

SKILLS

BACK-END
C++ • C • C# • Lua
Go • Python • Java

WEB
JavaScript • TypeScript • Vue.js
Apache • nginx • MySQL • AWS • Azure

LIBRARIES & TOOLS
OpenGL • Emscripten • Android SDK
XNA • MonoGame • Pandoc
Qt • Selenium

ENVIRONMENT
Linux • Git • Docker
Vim • Visual Studio • Valgrind
Jenkins • DroneCI • Gerrit • Bugzilla

EXPERIENCE

SENIOR SOFTWARE ENGINEER | Bournemouth Digital
Jan. 2019 – Nov. 2024

Multifaceted role at a newly founded startup, intersecting software development and leading the creation of company-wide DevOps infrastructure. Duties included working with external clients, mentoring software developers, maintaining cloud infrastructure, and establishing internal development processes with approriate self-hosted tooling.

- Web and client applications (event bookings, storefronts, content management) across a range of languages and technologies, primarily C#, .NET, PHP, Lua, Python.
- Maintaining a fleet of machines hosting Wordpress, Umbraco, .NET, Magento and more, ensuring shared adherance to standards and handling millions of page requests daily.
- Self-hosting internal platforms for Git, continuous integration, documentation and password management.
- Overseeing financial spending, conducting regular analysis and research to optimise cloud purchases for performance and cost-effectiveness.
- Developing web and internal tooling for resource management and data parsing using Lua, Bash, C, Go, Python.
- Leading clients meetings to assess needs, evaluate workloads and foster strong client communication to meet project goals and ensure lasting partnerships.

SOFTWARE ENGINEER | Bridgeworks Ltd
Sept. 2015 – July 2018

UK-based company with a range of networking hardware accelerating connections across Wide Area Networks (WAN). Developed for hardware products built on top of the Linux kernel, working with a C backend and Lua web front-end and related Linux tooling.

- Implemented new product features, with back-end integrations with Cisco WCCPv2, SAS device monitoring, and multiple management features through a web interface.
- Served as a direct mentor to junior and student engineers, providing guidance to support their professional development and success within the company.
- Time and project management using tools such as Gerrit and Bugzilla.
- Authored documentation in LaTeX, encompassing internal research, planning, and customer-facing guides and manuals.

DEMONSTRATOR | University of Lincoln
Sept. 2014 – June 2015

Assisted teaching a class of 70 second year students in *Games Computing and Computer Programming* modules.

- Collaborated with lecturers to develop teaching materials, ensuring alignment with course objectives and student learning outcomes.
- Conducted practical workshops covering OpenGL with C++ and multiple game frameworks.

PROJECTS

CROSS-PLATFORM VIDEOGAME TOOLS
Designed and developed game frameworks modern C++ with tooling in a variety of languages for creating video games, prototypes, and interactive art across Windows, Mac, Linux, Android and the web.
https://kyavi.itch.io

SECRET SANTA GAME JAMS
2020 – present

Founded an annual December community game creation event with receiving over 1500 submissions across five years. Responsibilities include event design, website creation, community management and content moderation.
https://www.secretsantajam.com