Antonio Papa

Personal Summary

I am a software engineer with a strong academic background and with valuable experience in the financial industry. Currently, I am looking for a software developer opportunity which will allow me to work alongside an expert team of developers. This will create a synergy of driving my career progression to more senior roles in the future and advancing the interests of my employer.

Personal Information

Address	41 Connaught Rd, London NW10 9AJ
Email	eng.antonio.papa@gmail.com
Telephone	(+44) 7754307736
Language	Italian, English

Education

February 2014	Master's degree in Computer Science Score: 110/110 with honors (U.K. Grade Equivalent: 1st)
Organisation	Tor Vergata, Rome University, Italy
Thesis project	Data Transfers between User and Kernel Memory via Dedicated DMA Engine
Main subjects	Computer Security, Distributed Systems, Advanced Linux, System Embedded and Real Time, Mobile computing
February 2009	Bachelor's degree in Computer Science
Organisation	Tor Vergata, Rome University, Italy
Thesis project	Development of an Epidemic Protocol for Pure Decentralized P2P System
Main subjects	Foundations of Computer Science 1 & 2, Algorithms and Data Structures, Object Oriented Programming, Computers Architectures 1 & 2, Operating Systems

Projects

July 2017 - Present	AVAPI
GitHub	• C++ version: https://github.com/AvapiDotNet/AvapiCpp • .NET version: https://github.com/AvapiDotNet/Avapi
Nuget	(https://www.nuget.org/packages/Avapi/)
Description	Co-creator and maintainer of Avapi. This library is a C++ and .NET Core/Standard wrapper allowing software developers to interface towards Alpha Vantage Service (Market Data for free!). The code and the documentation related to this library has been auto-generated by tools I have developed.
Tools	C++, Jira Cloud, Github, VS Code, AWS CodeBuild, AWS CodePipeline, AWS S3, nuget, .NET Core.

2014	Data Transfers between User and Kernel Memory via Dedicated DMA Engine
GitHub	https://github.com/engantoniopapa/Dmacftu
Description	Kernel extension that adds to original kernel the functionalities and information needed to manage a DMA engine that performs memory-to-memory transfers. The extension provides an interface for DMA transfers and a set of policies used to manage the DMA channels. One of these policies can also be used to manage the transfers of real-time applications. It assigns the bus of the DMA engine, for a certain time interval exclusively, to the channels that handle high-priority tasks. The system that uses this extension can improve performance related to copy memory operation and can reduce the cache pollution by up to 80%. The entire project exceeds 10K lines of code and was developed in C language.
2009	Epidemic Protocol for Pure Decentralized P2P System
GitHub	https://github.com/engantoniopapa/2Rounds
Description	Epidemic protocol that limits the data flooding produced by membership information and requests for resources localisation. This protocol provides a set of messages and routing rules that allows peers to communicate in a completely decentralized system. The network applications that use this protocol can improve network coverage, i.e. in a network with 500K nodes the network coverage is about 90% (with Gnutella protocol 20%), and control data flooding. The entire project was developed in C language.

Work Experience

12/2018 to 01/2018	QA/Support Engineer, Celoxica Ltd (20 Craven Terrace, London W2 3QH) • Design and implementation of new test cases regarding new financial feeds or messages (C language) • Design and implementation of risk component in the QA-TestSuite (C++ language) • Client Support on the Market Data and Order Entry products • MiFIDII Conformance Test for the European Exchange (LSE, BIT, TURQUOISE, OSLO, etc) • UDP/TCP traffic analysis and isolation for interesting sample to integrate as part of test cases.
09/2016 to 12/2017	Barista, Lexington Catering Ltd (1 Old Jewry, London EC2R 8DN)
05/2016 to 09/2016	Barista, Sweet N Savoury (237 Kilburn High Rd, London NW6 7JN)

Computer Skills

Programming Language	C, C++, C#
Kernel Hacking	• Knowledge of kernel Linux • Development of device drivers
Software	Code::blocks, VS Code, Wireshark, Vi(M)
Operating System	GNU/Linux, Windows(XP, Vista, 7)
Office Automation	OpenOffice, Microsoft Office, LaTEX, Gnuplot
Version Control	Git, GitHub, Subversion

Reference

References and additional information will be gladly provided upon request.