

# Marcus Craske

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London, UK

## PROFESSIONAL EXPERIENCE

**Worldpay / FIS** - *Principal Software Engineer - promoted December 2019, Senior Software Engineer - promoted November 2015, Software Engineer*

March 2015 - Present

Working on payment gateways, and primarily on the HPP (Hosted Payment Pages) platform, used by shoppers worldwide. Processing high volumes of transactions, in the billions annually. Used by well-known retailers, corporates, government agencies and smaller businesses. Processing online card and alternative payment method (APM) payments. Supporting multiple languages, currencies, international alternative payment methods, card schemes, end-user devices. Working in a highly regulated environment (PCI-DSS, SCA/PSD2, FCA, WCAG, GDPR etc).

Technical lead, experience working with: senior leadership (directors and c-suite) and the wider business (product manager, project owner, service owners, enterprise architecture, enterprise security, technical teams, business departments, etc).

Building distributed microservice architectures, designing long-running strategic projects, leading releases, architecture, defining release process and SDLC, mentoring, department presentations, optimising platform costs, code reviews, high-level designs, platform security, interviewing candidates, improving interview process, running training sessions with various teams, platform architecture, on-call production support, presentations.

*Using: Java 17, Spring Boot, Kubernetes, Docker containers, AWS, OpenShift, Terraform, React, JavaScript, TypeScript, JSON, OpenAPI. Historically: JAXB / SOAP, Oracle (Weblogic, DB, Coherence), Ansible, Angular and much more.*

**Proxama** - *Software Engineer*

Nov 2014 - March 2015

Working on a PCI-compliant product, CardGateway, to provide token and risk management of contactless payments for Visa and MasterCard. Using JEE6, Glassfish and C#.

**Proxama** - *Research & Development*

Aug 2014 - Oct 2014

Design of the CardGateway Issuer System product, graph databases for risk analysis, EMVTT / PoS solution. Software for demos presented to tier one/two clients, including major banks.

**University of East Anglia** - *Teaching Lab Assistant* - helped with *Discover Computing* school visit.

2013

## TECHNICAL SKILLS

**Languages** - Java, JavaScript, TypeScript, C#, C/C++, Matlab.

**Platforms** - Mac, Linux (Debian, Arch, Ubuntu), Windows, Raspberry Pi, ARM Cortex M, Verifone VX 820 PoS PED.

**Fintech** - PCI-DSS, Card Schemes, PSD2 / SCA, ISO 8583, Four Corner Model, Alternative Payment Methods (APMs), Digital Wallets, EMVCo, TLVs.

**Web** - WCAG, Web Accessibility, OWASP, HTML5, CSS3, JavaScript, TypeScript, ReactJS, Redux, Angular, AngularJS, ASP.NET, PHP, Gulp, Grunt.

**Misc.** - Amazon Web Services (AWS), SQL (Oracle, MySQL, Postgres/PostgreSQL, MS SQL), Mongo, Git, Jenkins, Maven, Gradle, Ant, Checkstyle, Spring Boot, Java EE, Tomcat, Hibernate, JUnit, Mockito, Selenium, AssertJ, JVisualVM OpenGL, Docker, Kubernetes, dependency injection, Agile, Scrum, Kanban, Scaled Agile / SaFe, WSDL, SOAP, REST, OpenAPI, LDAP / Active Directory, design patterns, Jira, Rally, Fastly, Cloudflare, NPM, Node, Android, iOS, React Native.

## EDUCATION

**Bachelor of Science (BSc)** - Computer Science

2014

First Class (Honours) Starred (I\*) - 83.48% weighted average

University of East Anglia

## THIRD YEAR PROJECT

**The Automated Assessment of Programming Skills** (graded 94.4%)

An open-source distributed system, which can be clustered across multiple nodes/instances using RMI communication, to automatically mark Java programming assignments using dynamic and static analysis.

## AWARDS

*Douglas Lewin Memorial Prize for Final Year Project*

2014

*The Pearson Education Prize in Computing Science*

2012

*WorldSkills Web Design - National Final - Gold*

2011

*Further Education Awards*

2011

*WorldSkills Web Design - National Final - Bronze*

2010

*Further Education Awards*

2010