

Paul Humphreys

Personal Information

Full name: Paul John Stephen Humphreys Permanent address: 61 Langleys,
Date of birth: 2nd February 1983 Basildon,
Nationality: British Essex, SS16 5DN

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Profile: A graduate in computer science with 15 years experience in software development using a wide variety of technology stacks. Specialist knowledge in artificial intelligence, 3D computer graphics, embedded systems development and web technologies (both client and server side). Able to adapt at short notice to new situations and roles and has proven communication and interpersonal skills. Able to develop with the C programming language on multiple platforms. Highly skilled in interfacing JavaScript (including ES6 and the Node.js high performance server side environment), HTML5, CSS3 and SQL (MySQL, Postgres and MS SQL Server), with extensive knowledge of internationalisation issues such as locale customisation and currency conversion. Also has administration experience with these operating systems: Linux (particularly Amazon Linux, Red Hat, Debian and Slackware), Windows Vista, Server 2003, XP, and 9x/2000. Currently seeking software development contract roles, preferably with multinational organisations.

Outside of computing, has an interest in languages, particularly Chinese and Japanese.

Experience

- Oct 2020- Jan 2021, Senior Contract Web Developer, www.irislistenwell.com, Remote
- Jun 2021- Dec 2021
- Wrote code in the C programming language compiled to WebAssembly that processes audio streams client side in a web browser
 - Produced a web proxy server to dynamically modify youtube videos in real time
 - Used Pytorch and Onnx Runtime machine learning frameworks together with the C programming language to bring AI based teleconference noise reduction to the web and embedded devices
 - Made use of the Janus WebRTC routing server for teleconferencing
- Oct 2018- Mar 2019 Senior Contract Web Developer, Sapient, Spitalfields, London
- Designed and produced a platform independent abstraction layer and state management system for voice assistants (Amazon Alexa, Google Home, etc)
 - Refreshed the GDPR styles for a large multinational client
 - Fielded support queries from many different development teams based in Europe, the Americas, and Asia
 - Mentored junior members of the team
 - Raised testing code coverage from 0 to over 80 percent
- Dec 2017- Jul 2018 Senior Contract Web Developer, AAT, Barbican, London
- Refactored the client's existing serverless Node.js based microservice architecture to utilise AWS Lambda, the NoSQL DynamoDB data store and swagger based API documentation
 - Produced a single page app to manage the client's Cookie and Privacy policies in order to achieve GDPR compliance
 - Facilitated the delivery of an approach for per record level security on the client's extranet
 - Mentored junior members of the team
 - Supported the process the releasing of results to students undertaking the client's examination programmes
- Jan 2017- Sep 2017 Contract Web Developer, Kamet Ventures, High Holborn, London
- Developed a microservice architecture using Node.js, Amazon Web Services and Docker, in particular user authentication with Amazon Cognito, and orchestration of microservices via the AWS API gateway
 - Produced an iOS and android based mobile app for the car maintenance industry.
 - Worked with Apache Cordova, Webpack and Facebook's React.js framework.
 - Wrote a Node.js inversion of control container for dependency injection and maintained a jasmine, mocha and sinon.js based unit test suite

- Nov 2015- Jul 2016 Contract Web Developer, LexisNexis, London Wall, London
- Produced prototypes of new functionality for the UK version of the product.
 - Produced Node.js base server side solutions to improve the company's internal workflow.
 - Produced web based interactive process management tool using JavaScript and D3.js/SVG.
- Jul 2015- Sep 2015 Contract Web Developer, Customly Limited, Kensington, London
- Produced e-commerce system using Node.js.
 - Produced Jasmine based unit tests with the Karma framework. Utilised a Jenkins based continuous integration server.
- 2012-2014 Web Developer, LexisNexis, Camden, London
- Produced extranet document management system for the legal industry of several countries, using ASP.Net MVC 4.
 - Produced Node.js base server side solutions to improve the company's internal workflow.
 - Used SVN, Git and TFS source code control systems to manage code releases.
 - Gained experience in working within an internationally distributed team.
 - Gained further experience of translation and internationalisation concerns.
 - Produced web based interactive flowchart diagrams using JavaScript and Raphael.js/SVG.
 - Utilised Node.js to perform development and build related tasks.
- 2010-2012 Middleweight Web Developer, Hostelbookers, Holborn, London
- Worked extensively with the JQuery and JQuery-UI Javascript libraries, in addition to XHTML and CSS.
 - Gained knowledge of the Agile workflow methodology and Scrum.
 - Implemented gateways to several third party web service APIs, including Barclays ePDQ and NedStat.
- 2008-2010 Web Developer, James Villa Holidays, Maidstone, Kent
- Maintained and developed both the company's Website and Intranet using Coldfusion, HTML, JavaScript, CSS, and SQL.
 - Worked within a team of developers to co-ordinate source code releases.
 - Maintained the website flight booking subsystem and intranet sales stats reports.
 - Produced HTML creatives for and managed the sending of company email campaigns.
 - Produced automated SEO sitemap XML functionality.

University Education

2003-2006 **Computer Science BSc (Hons)**
University of East Anglia, Norwich

Including modules:

- Computer graphics
- Operating system kernels and architecture
- Modern Artificial Intelligence techniques
- Professional practice
- External unit in the philosophy of mind

Final year project topic: 'Capture and animation of human gestures'

- Dealt with the representation of human sign language using human avatars in a 3D graphical environment.
- Worked within the university's E-Sign team.
- Produced software with C++ and Visual Studio .NET 2003.
- Re-factored legacy code to load various human avatar file formats.
- Introduced the capability to load multiple avatars simultaneously.

References are available upon request.