

Conor Woods

Senior Software Engineer

Website

productiveprogrammer.io

LinkedIn

linkedin.com/in/woodsconor

Summary

Conor has over 20 years' experience working as a "full stack" software developer.

His development roles include working as a senior software engineer for the BBC, Verint and, more recently, for a start-up accelerator company.

His wide spectrum of experience has led him to lead diverse I.T. projects from community-based collaboration platforms, to big data search portals, to lead developer on a multitude of start-up companies.

His technical experience includes an in-depth knowledge of mobile, web and server technologies.

His experience as a 'full stack' developer has led him to talk at several conferences and regularly talks at local meetups about modern developer practices.

Education

MSc (CCI) (Open) Computing For Commerce & Industry, 2008

Premiere Graduate Management Programme (Premiere Systems), 1999

BSc (Hons) Economics/Philosophy, Queens, Belfast, 1999

Rapid Advancement Programme (BIC Systems), 2000

Experience

October 2018-Present

3Advance.com - Senior Software Engineer – Serverless Cloud Infra + API + Frontend

Clients: AARP, Curbside Kitchens, NNEDV, TeamBuildr, TwentyTables

Description: 3Advance.com is a US based app development house, focussed on helping & guiding start-ups. Working primarily as an API and infrastructure developer I was responsible for the infrastructure (AWS) and developing an API for numerous clients from vastly different domains. Other duties include front end PWA development (React, Angular) and some client and 3rd party contractor management. In summary, working in a fast-paced environment using cutting-edge technologies to super-charge fledgling start-ups.

Main Technologies: AWS, Serverless, Azure, Firebase, Node, Typescript, Jest, Elastic, DynamoDb, RDS, Angular, React, Websockets, WordPress, LMS, Analytics.

April 2017-October 2018

Freelance Developer – Full Stack Web & Hybrid App

Clients: Coventry University, Action for Children, UK Home Office, Spatalest, King County Assessors Office (USA), Durham County Assessors Office (USA).

Description: Lead developer on a project for Durham County (USA) to replace their online dispute resolution system for property tax appeals. Flagship project, working with a No-code platform to rival a system developed by the creators of EBay.

Also, working alongside Coventry University and the UK home office I was the technical lead on creating a hybrid mobile app and supporting architecture to be used to steer youth away from extremism (UK PREVENT programme).

Technical lead on a project for King County (USA) to create a citizen portal which citizens can view data (licence, property, permit etc) that the county holds about them.

Main Technologies: No-code platform, Azure, AWS, Angular, Ionic, API.AI, AWS, Heroku, TypeScript, Elastic, Docker, NodeJS, PHP, Laravel, BPM, Websockets.

August 2016-April 2017

BBC. Senior Software Developer – Software Innovation Group

Client: BBC – Rewind Project

Project Objective: Provide a web interface (and supporting architecture) for journalists to search and access the archived content of the BBC.

Description: I was hired to be part of a small full stack team tasked with developing a solution for BBC archive material search. The role involved architecting and coding a solution which catalogued multiple BBC data stores and made the material quickly and easily searchable within the organisation. I was involved in coding and designing at all levels of the stack including Docker, Elastic, NodeJS and Angular. As well as putting in the hours to make sure the basic system functioned correctly, we also pushed the technology boundaries by implementing speech-to-text technologies so that the system's users could unearth long forgotten archive material.

Main Technologies: AngularJS, Elastic, Docker, Node, Mocha.

May 2013-July 2016

Spatalest. Senior Technical Lead - EU Research & Development

Clients: European Union, King County

Project Objective: Improve collaboration between affected citizens, volunteer groups and professional organisations to recover faster from disaster.

Challenge: Build & field test next generation software and processes that demonstrably improve resilience among communities within the EU.

Responsibilities: Senior Technical Lead and the company's chief representative on the project. Required to research, design, code and implement a unique, socially driven, community collaboration platform, field tested in multiple locations and scenarios throughout Europe. Also responsible for presenting the solution to the RICS Disaster Management Commission, Northern Ireland Regional Community Resilience Group, Dublin CC, Garda Siochana, PSNI, Irish/British/Dutch/German/International Red Cross.

Results: The project was commended by the EU commission and currently in the process of being commercialized. All partners recognized the company, and myself, as one of the most valuable members of the consortium.

Technologies Used: Angular, BreezeJS, EF6, Ionic, D3.js, SignalR, Selenium, C#, Websockets, ASP.net, Azure VM/WebApps/Azuredb/CDN/Storage, Open Data, Semantic Web, CKAN, GIS

March 2013 - May 2013

Freelance Developer

Clients: rebootauthentic.com, a-listblogging.com, teamthing.com

Challenge: After my successful time at a large corporate company (Kana/Verint), in a large international team, I decided to have a shot at freelancing while taking time to hone my web skills and look for the next permanent challenge.

Technologies Used: AWS EC2/CDN, Azure, Scalable architecture, C#, JQuery, Angular, Agile, PHP, MySQL, Postgres, Linux, Cloudflare.

October 2012 – March 2013

Kana/Verint (verint.com), Senior .Net Developer

Project Objectives: Rewrite a legacy CRM asp.net web application to utilize current web technologies.

Challenges: Understand, decode, and completely update a vast, successful, legacy web application in a short space of time, while working with partners from across Europe.

Responsibilities: Kana hired me to become one of the first senior engineers in the company's new .NET team. We were tasked with bringing a new flagship customer service product to market (Kana Express), based on a legacy application which the company had just purchased. I was heavily involved with the design and rewrite of the legacy CRM product to become scalable, multilingual and use current web technologies. Other responsibilities included mentoring newer, junior, members as they were hired and the team grew.

Results: Established the company's 1st .NET department in the company and helped to integrate junior developers into the department. The product (<http://www.kana.com/small-medium-business/customer-service>) underwent a sea change from its previous form. It has been updated to be a SPA, incorporating new multilingual features, advanced social media functionality and is now being used by over 200 companies as their primary CRM tool.

Technologies Used: ASP.net, C#, .NET 4.5, Knockout.js, SQLServer, Agile, JIRA, TFS, Multilingual, Distributed Teams.

2008 - 2012

DFSolutions, Lead Software Engineer

After a successful and happy 8 years with AMT-Sybex I was ready for new challenges and new technologies.

Project Objectives: Create a stunning and unique WPF based user interface for the company's high end home entertainment system. Also to create a mobile app and API to control the entertainment system.

Challenges: Create a mobile api as an interface between the system and the new android mobile app. Push against the limits of WPF to create a smooth and visually stunning interface. Interface with multiple 3rd party APIs to integrate innovative functionalities.

Responsibilities: I was hired as the main developer for the company's products. This involved design & coding of company's flagship high-end media center product (PC and Android interfaces) using innovative WPF techniques. We worked closely with customers, sales staff, and dev ops to find innovative solutions to customer issues. Introduced advanced features to allow integration of 3rd party APIs such as Hulu, Imdb, Last.fm etc.

Results: Implemented radical changes to product scalability, internationalization, and client UX (Awarded SVI Trade Gold Award & HCD Trade Award 2011) and massively expanded client portfolio (exporting to over 16 countries).

Technologies Used: WPF, C#, VB.net, Java/Android, TeamCity, SQLServer, PRISM, Agile, MVVM, IOC

2000 - 2008

AMT-Sybex (amt-sybex.com), Lead Programmer

What started as a personal placement project (FDCS/Field Reach <http://amt-sybex.com/fieldreach/>) has now become the flagship product for the company with over 35,000 licences sold to companies such as TFL, Network Rail, NIWS, EDF etc.

Project Objectives: Design & implement a full lifecycle field-working data collection system.

Challenges: Design a system which was usable by field workers, working in a variety of conditions. Provide a workforce overview tool for supervisors. Integrate with several existing asset management systems. Push the limits of existing 'early' mobile technologies.

Responsibilities: This project started as a placement project during my time with the Rapid Advancement Programme). My day to day responsibilities included mobile, server & desktop coding and design, technical direction, mentoring developers, co-ordinating a team of 4+ developers, database design and implementation.

Results: Chief developer and designer for mobile workflow product now being used worldwide in companies such as PowerNi, TFL, Metronet, Met Police, Network Rail etc. Numerous successful full cycle workflow solution projects for large utility and private clients.

Technologies Used: C#, VB.net, VC++ (for windows mobile development), MSMQ, WCF, SQLServer, Oracle, Informix