David Watson

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Software developer designing, deploying, and documenting prototypes, products, and processes from API to GUI to HCI across R&D labs, design studios, and tech startups for more than three decades.

Experience

2023-**2024** *Technical Consultant (1099)* **WYVERN Ltd**

- Integrated legacy PHP and Typescript point products into unified product suite

2021 *Technical Consultant (1099)* **Caterpillar**

- Built and optimized terrain visualization C++ code ported from Intel to Xilinx

2020 *Senior Member of Technical Staff (W-2)* **Carnegie Mellon University**

- Researched and Developed AI, HPC, and HCI in SEI Emerging Technology group

2018-**2020** *Software Engineering Specialist (W-2)* **Caterpillar**

- Collaborated with IT executives to move data storage provisioning to cloud native

2016-**2018** *Senior Software Developer (W-2)* **RealPage**

- Transformed legacy crawler into modern cloud native data pipeline

2015-**2016** *VP Product Development (W-2)* **Wellbridge Health**

- Sunset MVP, built API backend and production deployment; MAYA designed and developed UX/UI

2013-**2014** *Senior Software Developer(W-2)* **Forever**

- Prototyped MVP solo; developed 1.0-2.0 production releases with team of 4;

2011-**2012** *Senior Engineer (W-2)* **SMaSh**

- Built conversational SMS text interfaces with a team of two
- Supported large production clients such as Pittsburgh Steelers and Miller-Coors

Student **Github**, **Hack PGH**, **MIT**

- Completed *Git Foundations Workshop* course
- Completed *Programming Arduino: Physical Pixels* course
- Completed *RDBMS and Internet Application Programming* (Greenspun/Stonebraker) course

2010-2011 *Software Development Manager(W-2)* **Wellspring Worldwide**

- Led team to transform legacy data center deployment to automated CI/CD pipeline

Student **UPMC**

- Completed Mindfulness-Based Stress Reduction course at UPMC Shea Medical Center

2009 *Technical Consultant (1099)* **TenthRow**

- Developed live music experience in the browser streaming to fans worldwide

2008-2009 *Project Engineer (W-2)* **Qinetiq**

- Ported C# GUI to C++/Qt OCU; Coded python sonar parser/visualization bridging sensors->UI

2008 *Usability Consultant (1099)* **MAYA Design**

- Provided design feedback to MAYA Design on usability of Bayer Diabetes Glycemic Monitor

2008 *Technical Consultant (1099)* **Zenit Solutions**

- Designed and implemented python system to track inbound/outbound movers in Google Maps

2006-2007 *UI Software Developer (W-2)* **Nomos**

- Wrote QA tests for Corvus radiotherapy product; Designed and Prototyped 4D UI/UX

2004-2006 *Software Design Engineer (W-2)* **MAYA Design**

- Built AJAX stack on Python and NoSQL DB
- Designed and implemented early stage Zigbee drag and drop lighting design prototype for Lutron/Phillips
- Received **top 100 Award** from InfoWorld magazine for deployment of DHS website

2003-2004 *Cofounder (W-2)* **Cobind**

- Won Idea Foundry **fellowship** to launch Cobind
- Ideated and shipped the Cobind Desktop to test the DIY Linux build tools

2000-2003 *Senior Software Engineer (W-2)* **Management Science Associates**

- Envisioned and implemented client-server web services bridge which imported products from Excel through VBA to DB

1995-2000 *Principal Member of Technical Staff (W-2)* **CA Technologies**

- Wrote C++ code on Legent Automation Point, Platinum Raveler, and CA-Unicenter products

1992-1995 *Programmer (W-2)* **Mellon Financial**

- Implemented C++ on Executive Workbench product on OS/2
- Wrote first bank-wide rolodex in VB

1990-1992 *Programmer (W-2)* **United States Steel**

- Programmed API in IBM/Microsoft C compiler on OS/2 to reduce ops load in the datacenter

Education

- **Duquesne University**
  - **BS/BA** - Coursework included Business, Computer Science, and Music