

David Watson

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Software engineer making prototypes into products from design studios to tech startups to R&D labs.

Experience

2023-present *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 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 with team of 4;

2011-2012 *Senior Engineer W-2)* **SMAsh**

- Built conversational text interfaces with a team of 2

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

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

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

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

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

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

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

- Ported GUI to OCU; Coded sonar parser/visualization bridging sensors->UI

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; built predecessor to Phillips Hue in C#.net

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

- Designed, built, and shipped the Cobind Desktop to test the DIY Linux build tools

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

- Designed and built web services client-server which imported products from Excel through VBA

1995-2000 *Principal Member of Technical Staff (W-2)* **ca technologies**

- Contributed C++ code to Legent Automation Point, Platinum Raveler, and CA-Unicenter products

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

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

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

- Wrote HLLAPI security automation utilities in Microsoft Basic on Windows and Microsoft C on OS/2

Education

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

Learning

- **Git Foundations Workshop**
 - Github
- **Massachusetts Institute of Technology (MIT)**
 - (CE) RDBMS and Internet Application Programming - Greenspun and Stonebraker
- **Programming Arduino *Physical Pixels***
 - Hack PGH

Awards

- **Idea Foundry**
 - **Transformation Fellowship**
- **InfoWorld**
 - **Top 100 Award**