

William Roy Hubenschmidt, Software Developer

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Knowledge of programming, systems and information technology includes full-stack software engineering, test-driven application development, microservices, server-side programming, user interface design, database design, React, Linux, REST APIs, Node.js, Laravel, Git, MySQL, MongoDB, agile product development, and audio engineering. Programming experience in JavaScript, PHP, Java, C++, and assembly language.

Software Developer, Par-Tech, Inc., Detroit, MI, June 2021—Jan 2023

- Built and maintained test-driven solutions for telematics visualization tools used by industrial fleet managers.
- Led several implementation efforts, including:
 - In the first three months, conducted root cause analysis to identify and resolve several dozen intermittent frontend and backend defects, reducing urgent production support issues to 0-1 per month.
 - Redesigned multi-tenant application from its initial scope for use by a single customer using Laravel API-driven customer preferences and generic React components.
 - Developed React frontend using WebSocket persistent connection to enable live updates to asset manager interface.
 - Improved geographical map view interactive features and API response performance to enhance user experience and enable live features including vehicle transportation routing and real-time diagnostic trouble code indicators.
 - Led frontend test suite migration from Enzyme to React Testing Library.
 - Completed frontend library migrations and major version dependency updates to upgrade from React v16 to v18.
- Promoted to lead frontend developer, received excellent feedback on technical collaboration skills from remote colleagues.
- Served as an individual contributor for core product application rewrite efforts within microservices architecture.
- Peer reviewed team members' code; provided detailed estimates of scope, feature specifications, and API documentation.
- Adapted client environment and engineering best practices including code optimization and CI/CD with feature flags.
- Technologies used: React/JavaScript, Laravel/PHP, Node.js, MySQL, MongoDB, Docker, Azure, Jira, Confluence

Software Developer, Freelance, Ann Arbor, MI and New York, NY, Jan 2019—June 2021

- Application development for Tame Your Wallet (Ann Arbor, MI).
 - Agile software development using React.js to create Single Page Application (SPA).
 - Developed (model-view-controller) MVC backend service using Node.js and Express.
- Application development for Adorama, Inc (New York, NY).
 - Developed searchable product database, web scraper, and CRM interface using React progressive web app.
 - Created full stack application to consume JSON data from REST APIs of competitor product applications.
 - Created custom React.js components for data manipulations and to display data in searchable format.
- Built Java, C++, and PHP projects while maintaining academic 4.0 GPA in full-time Computer Science coursework.

Audio Engineer, self-employed, June 2010-present

- Built and maintained professional studio for all aspects of sound recording, mixing, and advanced production techniques.
- Distributed vinyl records in brick-and-mortar shops in New York, Berlin, Tokyo, and Rotterdam under the 99¢ Dreams imprint.

CRM Developer, Consultant, New York, NY, Jan 2013—Nov 2016

- Developed CRM solutions for NYC small business clients including James & Company, Color + Information, and Creative Connections to improve sales analytics, business intelligence, customer retention, and lead generation.

Development Associate, Amnesty International USA, New York, NY, June 2012—Jan 2013

- Implemented and administered MySQL database, solicited donations in support of international human rights.

Database Administrator, Robert F. Kennedy Human Rights New York, NY, May 2011—June 2012

- Implemented and customized Salesforce application for team offices in New York, Washington, D.C. and Florence, Italy.

AmeriCorps VISTA, Central Texas Food Bank, Austin, TX, Medicare Rights Center, New York, NY, April 2009-May 2011

- Wrote successful grant proposals to fund mission-driven nonprofit organizations as a national service volunteer.
- Developed a donor prospecting tool for senior staff using Crystal Reports, Raiser's Edge database, and Microsoft Excel.

EDUCATION

Eastern Michigan University, Ypsilanti, MI, 2020—2021, Bachelor of Arts, Computer Science (68 credit hours completed)

Columbia University, School of Engineering and Applied Science, New York, NY, 2019, Certificate, Computer Engineering

University of Michigan, Ann Arbor, MI, 2004—2008, Bachelor of Arts, American Culture, Music Minor