

## William Roy Hubenschmidt, Software Developer

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

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

- Programmed test-driven solutions for telematics visualization tools used by industrial fleet managers.
- Led several implementation efforts, including:
  - 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 core product as multi-tenant application using Laravel API and React frontend.
  - 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.
  - 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.
- 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

- Full-stack application development for Tame Your Wallet (Ann Arbor, MI).
  - Created survey application, CRM interface for email marketing managers (React/Express/Node.js/PostgreSQL).
- Full-stack application development for Adorama, Inc (New York, NY).
  - Created searchable product database, web scraper, and CRM interface (React/Express/Node.js/MySQL).
- Programmed Java, C++, and PHP projects as a Computer Science student at Eastern Michigan University (4.0 GPA).

### Audio Engineer, Self-employed, New York, NY Nov 2016—Jan 2019

- Built and maintained professional studio for 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.

### Development Manager, Correctional Association of New York, New York, NY, Aug 2015—Nov 2016

- Managed Raiser's Edge relational database, optimized data collection and developed custom reporting interface.
- Guided major gift fundraising in support of human rights and criminal justice reform.

### Development Associate, Hetrick-Martin Institute, New York, NY, July 2014—June 2015

- Optimized relational database information flow, data collection and reporting for the fundraising and accounting offices.

### CRM Developer, Consultant, New York, NY, Jan 2013—July 2014

- Implemented CRM solutions to improve sales analytics, business intelligence, customer retention, and lead generation.
- Web and database development for clients including Japan Society, Color + Information, and Creative Connections NYC.

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

- Assumed project management responsibilities for internal communication tool development. Managed developer consultants, defined project requirements, scope and deliverables for fundraising database to support international human rights.

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

- Administered 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

- Database development, data analysis, grant writing, and fundraising in support of national service nonprofit organizations.

## 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