# 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, CRM, SQL, 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 full-stack, test-driven solutions for telematics visualization tools for industrial fleet managers.
- Served as an individual contributor for application rewrite efforts (React UI / Laravel REST API).
- Peer reviewed team members' code; provided detailed estimates of scope, feature specifications, and API documentation.
- Helped grow and improve the engineering team through recruitment and technical mentorship on an agile software team.
- Adapted client environment and engineering practices (code optimization, CI/CD with feature flags).
- Assumed interim product management responsibilities (e.g. leading feature scope discussions, managing JIRA backlog).
- Earned a promotion to frontend lead, received excellent feedback on technical collaboration skills from remote colleagues.
- Led several implementation efforts, including:
- In the first three months, identified and resolved root causes of several dozen intermittent defects, reducing urgent production support issues to 0-1 per month.
- Reimplemented core product as a multi-customer application from its initial scope for use by a single customer, enabling API-driven views by customer preference. Wrote generic React components to consume JSON configuration objects determined by Laravel server-side logic.
- Developed React frontend to exchange Websocket data between browser and server via persistent connection in order to enable live updates to asset manager interface.
- Improved map view features and backend performance to enhance reporting and enable live transportation routing.
- Led frontend test suite migration from Enzyme to React Testing Library, wrote test patterns for use by other developers.
- Completed dependency updates to migrate from React v16 to React v18.
- •Technologies: 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 MVC framework to create Single Page Application (SPA).
  - · Developed back end service using Node.js and ExpressJS to exchange JSON data with PostgreSQL database.
- 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 is 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.

#### **EDUCATION**

Eastern Michigan University, Ypsilanti, MI, 2020-2021, Bachelor of Science, Computer Science

**Columbia University, Fu Foundation School of Engineering and Applied Science,** New York, NY, 2019, Executive Education Certificate, Computer Software Engineering

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