David C. Hu

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Projects

Sole Developer   **React Redux File Generator** | Live | GitHub
A npm JavaScript module that generates frontend file templates for react/redux
- Over 9000 downloads on npmjs.com since January, 2017.
- Utilized JavaScript file system to generate file templates to speed up project creation and eliminate common import/export errors.

Full-Stack Developer   **Tempo** | Live | GitHub
A single page music streaming web application built with Rails, React, and Redux
- Utilized React Sound and designed a custom interface to implement a music player that continuously plays while the user browses the site.
- Created music search and rendered the result in real time, while minimizing the number of database queries.
- Used webpack to split codebase into smaller chunks that are loaded on demand to improve speed of initial page load.

Full-Stack Developer   **Eezee** | Live | GitHub
A React-Native mobile app that uses public API to query movies in streaming.
- Learned React Native in one week and built a cross platform mobile application.
- Utilized Guidebox API to query over 300 video streaming services via a single API call.
- Incorporated Firebase backend authentication with React Native & Redux frontend.

Skills

Ruby On Rails	**SQL**	**HTML5**	**ReactJS / Redux**
JavaScript	**Git**	**CSS3**	**React Native**

Education

University of Pittsburgh   Aug 2008 – Apr 2012
B.S. in Chemical Engineering, GPA: 3.8   Pittsburgh, PA

Experience

JumpStart TA   Feb 2017 – Present
App Academy   San Francisco, CA
- Taught Ruby to prospective students by providing one-on-one support and introducing programming concepts in lectures of 20+ students.

Lead Wireline Field Engineer   June 2012 – Feb 2015
Schlumberger, Halliburton, & C&J Energy Services   PA, TX, LA
- Was the lead engineer on site and managed 5 to 15 people, including third party companies, and generated over $10 million in revenue.

Business Development Intern   May 2011 – Aug 2011
Elliott Group   Jeannette, PA
- Created Excel Visual Basic program to scrape Elliott Group's and its competitors' sales data to determine the optimal projects to bid on and adjust pricing.
- Automated net present value (NPV) calculations using Visual Basic to determine future profitability of research projects and prioritize projects based on NPV values.

Research Assistant   May 2010 – July 2010
RWTH Aachen University   Aachen, Germany
- Optimized MatLab program to analyze data from hundreds of hours of experiment data to calculate oxygen/carbon dioxide transfer rate in bioreactors.