

AARON COUCH

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12+ years creating online experiences and leading teams. Expert in React, Drupal, PHP, Python, Javascript, and Open Data

EDUCATION

JUNE 2001

BACHELOR OF ARTS IN ENGLISH, UNIVERSITY OF PENNSYLVANIA

Winner of first place for best fiction and best critical review by an undergraduate

SUMMARY OF SKILLS

- Production NodeJS and Javascript experience using front-end libraries like React, Angular 1, D3 and others
- Help build react libraries for data visualization and data cataloging
- Experience directly managing developers
- Linux server, Docker, and AWS experience
- Drupal core contributor

PROFESSIONAL EXPERIENCE

OPEN DATA EXPIERENCE

○ DKAN

- Created DKAN open data catalog in 2012
- Lead Developer and architect for open data catalogs for 6 years
- 100+ governments in 35+ countries using DKAN

○ CKAN

- Technical architect for federal level CKAN projects
- Built CKAN extensions

○ Geographic Information Systems

- Experience using CARTO as a mapping and data visualization tool
- Installing Geoserver and using APIs

JAVASCRIPT EXPERIENCE

○ Javascript / NodeJS

- Experience using Webpack and chunk optimization / code-splitting and ES6/ES7 features
- Experience using testing frameworks like Jest and Mocha deployed on TravisCI and CircleCI

- Created Lambda applications on AWS
- Helped create [GraphQL library \(DashQL\)](#) library for data visualizations
- **React**
 - Developed React apps to show data from studies for Bristol Myers Squibb
 - Built Interra Catalog, an Open Data catalog with a React front-end
 - Helped develop React Dash project for creating customizable data visualization dashboards
- **Data Visualization**
 - [Created numerous data visualizations](#)
 - Created tool for creating charts and graphs using public data: http://nucivic.github.io/nvd3_visualization_app/
 - Helped author React Dash data dashboard tool <https://github.com/NuCivic/react-dash>
 - Experience with D3, NVD3, Plotly, and other data viz tools
- **Other front-end tools**
 - Understanding of HTML 5 semantic elements, HTML 5 APIs (LocalStorage, Web Workers), CSS compilers (Sass, LESS, etc), and accessibility tools: WAI-ARIA, Section 508 and WCAG

BACKEND EXPERIENCE

- **Databases**
 - Created and supported MySQL clusters with master/slave replication
 - Experience using and standing up PostgreSQL and MongoDB databases
- **Linux Server**
 - Managed LAMP stacks on Linux servers since Ubuntu 10.04
- **Configuration Management**
 - Created and deployed Puppet manifests and Ansible playbooks
- **Devops**
 - Created and managed local development environments for up to 10 devs
 - Setup instances of Jenkins, NewRelic, PagerDuty, Splunk and other tools
 - Setup testing workflows on TravisCI, CircleCI and Gitlab

LANGUAGE AND FRAMEWORK EXPERIENCE SUMMARY

- **PHP**
 - Experience customizing and building with Drupal and Wordpress, testing using PHP Unit and Behat, PHP libraries bundled with Compser and frameworks such as Symfony
- **Python**
 - Experience creating command line scripts and tests
 - Helped write CKAN extension for City of Chicago
- **Ruby**
 - Experience creating command line scripts

TRAINING, WRITING AND SPEAKING

- Trainer as part of public trainings of up to 40 students
- Designed and put on dozens of trainings for organizations such as Verizon, State of New York, City of Washington DC and others
- Spoke at numerous DrupalCamps and DrupalCon

EMPLOYMENT HISTORY

MARCH 2018 - PRESENT

LEAD DEVELOPER, CIVICACTIONS

- Engineer and architect on Open Data team
- Worked on DKAN and CKAN projects including healthdata.gov and data.gov
- Created Python and PHP-based ETL pipelines
- Architected and developed React front-end for open data catalogs

JANUARY 2017 - FEBRUARY 2018

SENIOR ENGINEER, ACCENTURE (BRISTOL MYERS SQUIBB)

- Support internal DKAN portal adding many new features such as enhanced search and license workflow
- Create data visualization apps in React using “create-react-app” as a base
- Oversee work of three offshore developers
- Managed AWS resources including services such as Cloud Formation, SQS, Data Pipeline, Route 53, API Gateway, EC2, S3, Elastic Load Balancing, Code Deploy, Auto Scaling, and others

DECEMBER 2015 - JANUARY 2017

SENIOR DEVELOPER, GOVDELIVERY / GRANICUS

- Tasked with managing team taking on biggest problem with productizing DKAN:
 - cost of client customization
 - cost of deploying updates and new instances
- Reduced technical debt due to client customizations, cost of hosting, and cost of deployment
- Managed CircleCI testing infrastructure on AWS drastically reducing test time and cost

JUNE 2012 - DECEMBER 2015

DIRECTOR OF ENGINEERING, NUCIVIC

- Created DKAN Open Data catalog which is now used in over 30 countries
- Served as Lead Developer and Product Owner
- Managed a team of up to 9 developers
- As a co-owner helped build start-up from 3 to over 20 employees
- Wrote blog posts, gave presentations and trainings and managed projects
- Managed Docker local development environments

JULY 2008 - JUNE 2012

PROJECT MANAGER / DEVELOPER, ZIVTECH

- First employee of company that grew to over thirty
- Played role as Project Manager, Developer, Trainer, and “Jack of all trades”