ROBERT GUTIERREZ

Senior Software Engineer

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PROFILE

I am a creative, collaborative, and empathetic software engineer and manager with experience in education and academia. I have 9 years of professional experience building impactful web applications and tools, as well as supporting and empowering colleagues to do their best work. Open to in-person, hybrid, or remote work.

SKILLS

Languages: Python, Javascript, Ruby, PHP
Frameworks: Django, Flask, Node.js, FastAPI, Apache Airflow, Ruby on Rails, WordPress
Frontend: React, jQuery, d3.js, Angular 1, Javascript, Webpack, Bootstrap, HTML, SCSS, CSS, Adobe Photoshop
Databases: PostgreSQL, MySQL, Google BigQuery, Google Datastore/Firestore, MongoDB, Salesforce
Cloud Services: Google Cloud Platform (GCS), Amazon Web Services (AWS)
Infrastructure: Docker, Docker Compose, Vagrant, Linux
Other: Pytest, Selenium, GitHub, Agile Methodologies, Atlassian Jira, Jenkins, Technical Writing, Documentation

EXPERIENCE

Carnegie Foundation for the Advancement of Teaching   August 2014 – June 2023

Web Developer to *Lead Web Developer*

Worked in a multi-disciplined software development team of 7, as a full-stack developer, to plan, develop, and deploy 8 education-focused web applications at scale, used by hundreds of school districts and thousands of teachers and students. Primarily utilized Python, React, jQuery, d3.js, and Google Cloud Platform. Utilized Agile methodologies and tracked work in Jira. Wrote extensive documentation and technical blog posts. After promotion, took on management of team as well as project management duties, DevOps, code review, requirements gathering, hiring, and negotiating timelines.

Technical Highlights:
- Deployed an automated data processing pipeline using Apache Airflow, Google Kubernetes Engine, and R, completely automating the analytics tasks for our statistics team.
- Developed a custom survey application ecosystem, allowing users to create surveys, define measures for questions, and schedule and administer surveys over multiple time periods with schedulable email reminders and dashboards tracking results over time.
- Led work on and shipped a comprehensive data dashboard used by 42 school districts and thousands of teachers.
- Utilized Google Cloud Functions to provide new functionality to legacy applications.
- Contributed to three open-source projects that are actively used.

Management Highlights:
- Wrote job descriptions and conducted interviews, ultimately hiring two new team members.

- Conducted sprint planning, standups, and retrospective sessions. Wrote user stories. Customized Jira to facilitate both development and design tasks.
- Created extensive documentation for internal processes, as well as for team norms and priorities, to streamline team onboarding and guide our work for the coming fiscal years.
- Completed thorough code reviews for other developers' pull requests, providing ways to optimize or rethink sections as well as encouraging a standard coding style. Implemented GitHub Actions to automate CI/CD tasks.

Signature Services   May 2013 – February 2014

Web Developer

- Streamlined internal processes by writing an administrative backend for staff to use.
- Updated company's website, reorganized files, and fixed bugs.
- Maintained additional static and Drupal websites.
- Troubleshooted software and hardware issues on both office computers and servers.

California State University, Chico   2009 - 2010

Web Developer

- Developed web pages for existing sites using PHP and ASP. Modified themes and plugins for WordPress and Joomla! sites.
- Created and maintained MySQL and MSSQL databases.
- Wrote complex queries and views for common data requests.
- Troubleshooted software and hardware issues on both office computers and servers.

Association of International Product Marketing and Management   2007 - 2014

Intern to *Freelance Web Developer*

- Designed graphics for conference materials using Adobe Photoshop.
- Provisioned and maintained several WordPress sites, utilizing a common design and theme for each site.
- Utilized APIs from Zoho CRM, Invision Power Board, and aMember to integrate external services into existing website.

EDUCATION

California State University, Chico
B.A. Communication Design
Minor in Video Game Design

Coursera certificates
Google Cloud Platform Fundamentals: Core Infrastructure
Getting Started with Google Kubernetes Engine

OTHER ACCOMPLISHMENTS

- I maintain a professional tech blog (robert-a-gutierrez.medium.com) and am a writer for DevGenius, writing posts on interesting and challenging work, brainstorms, and project postmortems.
- I have written a rough draft of and am currently in the editing stages of a cyberpunk novel that will be part of a trilogy.
- I'm the founder of Ochre and Palm, a new cafe project that seeks to provide high-quality and unique drinks to its customers while improving its employees' lives, the communities where it does business, and the foodservice/hospitality industry. I've created seasonal menus and conducted two successful pop-up events.