Sean Dickinson

Web Developer

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SUMMARY

5+ years experience developing custom web applications designed to solve specific problems. Focused on creating accessible applications that are easy to maintain and scale as they grow in scope based on identified needs.

KEY SKILLS

- Web Development
- Responsive Design
- Serverless Architecture

TECHNICAL SKILLS

- **OS:** Windows, MacOS, Linux
- **Hosting:** Firebase, Netlify
- **Version Control:** Git, Github
- **3rd Party Tools**: Twilio, Mailgun
- **Languages:** JavaScript, Typescript, Python
- **Frameworks:** Angular, Vue.js, Node.js, Flask
- **Cloud Platforms:** Google Cloud, Heroku
- **Web Technologies:** HTML Canvas, CSS

PROFESSIONAL EXPERIENCE

Oakwood Friends School | Technology Coordinator   Aug '14 - Present

Boarding/Day Quaker School in Poughkeepsie, NY. Technology coordinator is responsible for installing, maintaining, and upgrading physical technical infrastructure; providing technical support for employees and students; developing and maintaining custom internal software critical to the functioning of the school

Infrastructure Management
- Envisioned, implemented, and maintained a 1:1 Chromebook program for the middle school
- Planned, configured, and deployed new networking switching and WAPs for the entire campus
- Supervised the upgrade of all campus systems to Windows 10

Educational Technology
- Transitioned the school to Google Workspace and led trainings on **Google Classroom**
- Pioneered **flipped classroom** techniques and **facilitated departmental workshops**
- **Orchestrated the pivot to remote learning** in 2020 and served on the COVID planning committee for the 2020-21 school year

Project: Student Accountability Software Jun '16-Present

Description: Customized platform to account for students during the academic day, after school sports, and for residential check-ins
Environment: Angular, Vue, Firebase, Node.js Cloud Functions, Typescript
- Single-handedly envisioned, developed, and maintained these applications
- Worked with administrators at the school to **tailor functionality** exactly to their needs

Development and Maintenance
- Engineered **dynamic** and **reusable components** to be employed throughout the applications
- Developed database structures and server side logic to ensure **data health** and **redundancy**

3rd Party API Integrations
- Integrated with **3rd Party APIs** for customized SMS and email alerts
- Ensured data security using strict **user authentication** and database **security rules**

Key Achievements
- Consistently **solicited feedback** from users and released regular, **data driven quality updates**
- Integrated previously disparate systems to greatly **improve data visibility**

Oakwood Friends School | Math/Science Faculty Aug '13 - Present

Boarding/Day Quaker School in Poughkeepsie, NY. Teaching faculty duties include teaching a variety of classes and electives, coaching, dorm supervision, and assisting with weekend activities

Science Courses
- Expanded the AP Chemistry curriculum to include more inquiry based labs
- Utilized project based learning in Conceptual Physics to help students grasp abstract concepts
- Created electives such as Robotics, the Science of Sound, and Computer Based Explorations in Classical Physics to broaden science options for students

Computer Science Curriculum
- Conceived and implemented the first computer science curriculum for the school
- Taught a sequence of web development focused on fundamentals of HTML, CSS, and JavaScript
- Taught a course sequence for computer science concepts through Python that focused on applying traditional data structures, flow control, and OOP ideas to applied projects

CERTIFICATIONS

- **Udacity Front End Developer | May '20**

EDUCATION

B.A. - Chemistry | Vassar College Poughkeepsie, NY | '13