

Kirby Smith

Cotuit, MA 02635 • 508-471-7484

Kirbsmith@gmail.com • www.linkedin.com/in/kirbsmith • <https://kirbysmith.netlify.app/>

Front End Web Development | Software Engineering

M.Sc.-level educated engineering and astronomy education professional seeking a role in front end web development. Ambitious, dedicated, and resourceful STEM educator of seven years skilled at breaking down complex topics. Excel at building efficient and accessible websites. Regularly upskill. Lifelong learner.

CORE COMPETENCIES AND ACHIEVEMENTS

- **Programming Languages.** Vue3, TypeScript, TailwindCSS, Node.js, AngularJS, React, jQuery, JavaScript, Python, CSS and HTML.
- **Additional Technical Proficiencies.** Blockchain, Github, Salesforce Trailhead Explorer, Office 365, and Google Workspace. Telescopic softwares such as TheSkyX, AstrophotographyTool, EQASCOM, and Cartes du Ciel.
- **STEM Professional.** Completed #100Devs Bootcamp and two FreeCodeCamp Certifications. Embarked on M.Sc. in Astrophysics and a Graduate Certificate in Astronomy. Manage the David Cole Observatory, an educational astronomical observatory.
- **Team Player.** Collaborate with colleagues to advance student learning and engagement in science. Consistently work well with others to achieve common goals.
- **Keen Attention to Detail.** Accurate, reliable, and diligent. Always complete projects and tasks within budgets and schedules. Can handle any ongoing challenges.
- **Well Rounded Individual.** Classical pianist and skilled electrician.

PROFESSIONAL EXPERIENCE

Web Developer | Front End Software Engineer | Front End Consultant

Freelance, Barnstable MA

Feb 2022 – Present

- Design web applications and websites for medium and small sized businesses in the construction, cryptocurrency, retail, and nonprofit sectors.
- Created a unique social media hub to track user activity, including account login, password encryption, and engagement with marketing videos.
- Collaborate with clients to determine the best digital solutions to business challenges; advise clients on best practices for search engine optimization.

Engineering and Astronomy Teacher | Independent Studies Supervisor | Observatory Manager

Barnstable High School, Barnstable MA

Aug 2020 – Present

- Teach Engineering and Honors and College Prep Astronomy; adapt the curriculum to meet the needs of students with special needs and English Language Learners.
- Create a project-based engineering curriculum with an emphasis on the engineering design process, such as utilizing iterative work cycles and satisfying specific constraints in each challenge.
- Introduce students to the solar system, stellar studies, cosmology, and current events in astronomy.
- Supervise and mentor advanced astronomy students on individual projects ranging from spectroscopy to processing techniques in astrophotography.
- Manage the David Cole Observatory; oversee its telescope and the Observatory's public facing events. Secured 7K in grants to purchase equipment for the Observatory.
- Instruct students how to use telescopic software to program the telescope to capture specific images.
- Collaborate with the science department to establish best practices and to align curriculum.

Sixth Grade Science Teacher | Professional Development Specialist, Science

Monomoy Regional Middle School, Chatham MA

Jul 2016 – Aug 2020

- Taught general science supplemented by laboratory experiments; led quarterly seminar classes in topics like astronomy and coding to increase scientific exposure and understanding.
- Leveraged local natural resources to design projects around water treatment and endangered species in partnership with the National Audubon Society.
- Led professional development sessions on the power of using primary sources in science education.

- Used data from standardized testing to inform instructional decision-making.

EARLIER WORKING EXPERIENCE:

Heating and Cooling Technician – Professional Heating and Cooling, Harwich, MA

EDUCATION

University of Southern Queensland, Toowoomba Queensland –
M.Sc. in Astrophysics (Jul 2018)

Swinburne University of Technology, Melbourne AUS –
Graduate Certificate in Astronomy (October 2016 - Oct 2017)

University of Massachusetts Dartmouth, Dartmouth MA –
M.A.T. in General Science, Grades 5-8 (May 2015 - May 2016)

University of Massachusetts Dartmouth, Dartmouth MA –
B.A. in Psychology (January 2011 - May 2015)

CERTIFICATIONS AND TRAINING

Front End Development Libraries, FreeCodeCamp Certification (Nov 2022)

#100Devs Bootcamp (Aug 2022)

Responsive Web Design, FreeCodeCamp Certification (Mar 2022)