

R. Madison Haynie

Greater Paris Metropolitan Region | <https://www.linkedin.com/in/rmadisonhaynie/>

Engineering manager and full stack developer with experience in .NET, web platforms, test automation, and physics-driven problem solving.

PROFILE

Engineering manager at Criteo leading full stack developers on client-facing web applications and internal tools. Background spans software engineering, test automation, distributed delivery systems, physics research, teaching, and systems engineering.

EXPERIENCE

Engineering Manager | Criteo | Aug 2021 - Present

Leads a team of 4-8 full stack developers building client-facing web applications and internal tools.

- Manages planning, execution, mentoring, and delivery for full stack R&D work.
- Progressed through full stack and R&D engineering roles before moving into engineering leadership.
- Builds web products and tools across engineering, product, and operational needs.

Full Stack Software Engineer | Criteo | Feb 2017 - Aug 2021

Built client-facing web applications and operational tools across Criteo R&D and operations teams before moving into engineering management.

- Progressed through Full-Stack Developer 2, Senior Full-Stack Developer, Software Engineer 2, Software Engineer 3, and Software Engineer 4 roles.
- Delivered full stack web application work across product, R&D, and operations contexts.
- Developed a technical foundation that later supported engineering leadership responsibilities.

Software Engineer II | Citrix | Jan 2016 - Jul 2016

Built and maintained GoToWebinar software components across backend, frontend, testing, and delivery workflows.

- Developed, debugged, reviewed, and tested product code as part of a collaborative engineering team.
- Contributed to unit, integration, and regression test coverage for production collaboration software.
- Worked with Java, JavaScript, HTML, CSS, Spring, Git, Maven, Jenkins, Bamboo, AWS, and Docker.

Software Development Engineer in Test II | Citrix | Jan 2014 - Jan 2016

Created and executed automated and exploratory testing for GoToWebinar, GoToMeeting, and GoToTraining.

- Designed test plans and automation suites for collaboration products.
- Worked closely with engineering teams to improve reliability, release confidence, and product quality.

Physics Instructor and Teaching Associate | UC Santa Barbara | Jun 2013 - Dec 2013

Taught large introductory physics courses and managed teaching assistants in the Department of Physics.

- Lectured, held office hours, coordinated teaching assistants, and taught Physics 6C/6CL for classes averaging around 250 students.

Graduate Physics Researcher | UC Santa Barbara | Mar 2012 - Dec 2013

Researched high energy physics, dark matter models, and particle physics analysis.

- Modeled scalar field Bose-Einstein condensate dark matter and compared theoretical consequences against observations.
- Worked on CMS Collaboration SUSY searches using C++, Monte Carlo simulations, and particle physics analysis methods.

Mathematics and Physics Tutor | Arizona State University | May 2010 - Aug 2010

Tutored calculus and calculus-based physics for Arizona State University's Math and Science Honors Program.

- Instructed Calculus II students, provided private tutoring, and supervised other tutors.

Student Researcher | Arizona State University | Jun 2007 - Jun 2009

Studied molecular heat flow using Path Integral Monte Carlo methods in quantum statistical mechanics.

- Applied computational physics methods to a 64-carbon atom molecule research problem.

Systems Engineering Intern | Orbital Sciences Corporation | May 2007 - Aug 2009

Supported systems engineering teams for missile defense and commercial launch vehicle missions.

- Coordinated cross-discipline engineering inputs, verified contractual compliance, and produced mission and interface requirement documents.

- Supported critical timeline reviews and telemetry review for aerospace programs.

SKILLS

Leadership: Engineering management, Team leadership, Mentoring, Planning, Cross-functional collaboration, Client-facing web applications

Engineering: C#, .NET, ASP.NET, Java, JavaScript, TypeScript, Angular, HTML, CSS, SQL, Spring, C++

Quality and delivery: Test automation, Unit testing, Integration testing, Regression testing,

Exploratory testing, Git, Maven, Perforce, JIRA, Bamboo, Jenkins, Docker, AWS

Analytical foundation: Physics, Mathematics, High energy physics, Particle phenomenology, Monte Carlo simulation, Quantum statistical mechanics, Teaching

EDUCATION

University of California, Santa Barbara | 2010 - 2013

Master's degree in Physics, 4.0. Graduate work in physics with research and instruction experience.

Arizona State University | 2006 - 2010

Bachelor of Science in Physics and Mathematics, 4.0. Double majored in physics and mathematics.

LANGUAGES

English: Native or bilingual proficiency. Native or bilingual proficiency

French: Limited working proficiency. Limited working proficiency