Tim Upchurch

Software Professional

Software engineer and product manager with extensive experience scaling platforms from inception to market readiness. Expertise in building robust software solutions for business data analysis and integration, including advanced client-facing and backend systems using web technologies. Adept at leading cross-functional teams, collaborating with stakeholders, and delivering user-centric platforms that enhance operational efficiency and customer satisfaction.

Contact

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Raleigh, NC, 27603

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Email
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www
timup.ch

GitHub
@timup

Skills

Ruby

JavaScript

React

Rails

PostgreSQL

Stripe/Payments

Auth0

OpenAI

Heroku

AWS

Elixir

RabittMQ/Event Stores

Git/GitHub/CI/CD

Test-Driven Development (TDD)

Team leadership

Design systems

Work History

Sep. '21 - Current

Principal Engineer
Fortify, fortifypay.com, Raleigh, NC

- Led the development of Fortify, a fintech platform enabling vendors to offer purchase and financing options, structure payment streams, and manage deal lifecycles.
- Processed over $300M in equipment financing deals, with the product team directly responsible for over $2.4M in new volume on the Payments product.
- Built a team, including two junior developers, to drive feature development and maintain the platform's stability.
- Partnered with operations teams to translate business needs into technical solutions, enhancing user experience and operational efficiency.
- Managed support queues and ensured swift resolution of platform issues.

May '19 - Dec. '21

Full Stack Engineer
Malartu, malartu.co, Raleigh, NC

- Developed data visualization and analytics tools to help businesses make data-driven decisions.
- Created integrations with various third-party services to bring critical business data into a unified platform with Elixir.
- Delivered user-friendly dashboard software using Ember JS.

Jan. '15 - Dec. '19

Independent Consultant
Tim And Company, Raleigh, NC

- Ran a boutique consulting firm providing software development and technology strategy services.
- Specialized in small business applications and data integrations.

Projects

Flightlines

flightlines.co

Created a commercial aviation news brand delivering weekly industry insights and analysis. Established as a trusted source with a growing online presence, including social media channels, with plans to expand into e-commerce.

Durham Materials Company
Durham, NC

Collaborated on an initiative to develop and market an all-natural waterproof cotton material. This project involved researching sustainable manufacturing methods, coordinating with suppliers, and driving early-stage product testing to refine durability and water resistance properties.

Flight Simulation
Raleigh, NC

Dedicated significant hours and study to various airframes and avionics packages to stay current with technology and modern air traffic control practices, in Microsoft Flight Simulator with Navigraph charts over the VATSim network.

Aug. '15 - Apr. '19

Software Developer
Vaporware, vaporware.net, Raleigh, NC

- Built and maintained custom software solutions for start-ups, with a focus on MVP development and scaling.
- Guided clients through Agile development processes, prioritizing efficient delivery of high-value features.
- Acted as a technical advisor for clients, bridging gaps between business needs and technical implementation

Education

Jan. '07 - Jan. '09

NC State University, BA - Arts Applications
College of Humanities, Arts, and Social Sciences, Raleigh, NC

- Focused on the intersection of film theory, production, and multimedia.
- Relevant coursework: Digital Video Production, Advanced Multimedia, Documentary Film, and Screenwriting.
- Honors: Full Frame Documentary Festival Fellow (2009).

Jan. '11- Dec. '12

NC State University, Art & Design, Master's Program
College of Design, Raleigh, NC

- Engaged in advanced studies exploring the integration of technology and art.

May '08 - July '08

Zhejiang University
Study Abroad Program, Hangzhou, China

- Gained a global perspective on arts and cultural studies-through immersive coursework.

Aug. '06 - Dec. '06

Durham Technical Community College
Non-Degree Seeking, Durham, NC

- Completed coursework to enhance foundational knowledge in arts and humanities.

References available upon request.
Thank you.