Zach Tippit

Senior software engineer and product builder with a mechanical engineering background

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SUMMARY

Senior software engineer who builds the products people actually touch, and who makes the engineers around me better. I've shipped customer-facing apps from the UI library up, and my engineering background keeps me curious well past the browser. On my own time I make games, energy data tools and small pieces of connected hardware.

EXPERIENCE

Coterie Insurance 2023–present

Senior Software Engineer 2026–present

- Promoted to senior after building or contributing to nearly every interface in Coterie's production applications.
- Onboarded and trained a returning senior engineer, now the team lead, and remain their closest collaborator.
- Mentor multiple colleagues across the company, both technically and professionally, and give internal company talks.

Software Engineer 2023–2026

- Built the policyholder administration portal, version 2 of the agent dashboard, and the quoting flow through a period of rapid company growth.
- Rebuilt the company's UI library after an earlier dedicated effort stalled.
- Far and away the front end's most prolific engineer, authoring over a third of all commits across three years on a team of six.
- Reviewed more pull requests from 2023 to 2025 than anyone in the company's history.
- Won multiple company awards, including the Intelligence Award and the Mo Coverage Award, Coterie's employee-of-the-week honor.

Software Engineer and Consultant, Independent (operating as From Magic LLC since 2026) 2020–present

- Take on part-time software, automation, data and IT engagements for small teams.
- Built Tableau and Data Studio dashboards that read in-room sensors and surface insights for the agriculture industry.
- Developed React sites for internationally based creatives and small businesses.
- Delivered paid client work, including an archival app, and pro bono work on a legal project.

Solutions Consultant, OniGroup 2017–2018

- Consulted directly with C-level executives at IoT technology firms building on Google Cloud.
- Oversaw change management for Google-centric IT restructuring at ASX-listed firms across ANZ and ASEAN.

Programming and Machine Shop Instructor, Technician, FAMU-FSU College of Engineering 2014–2016

- Taught classes of 80+ students in C++, MathCAD, MATLAB and PTC Creo Parametric.
- Oversaw the student mechatronics competition, designing robotics and sensor controls on embedded systems.

Superconductor Research Engineer, Energy 2 Power Company 2014–2016

- Designed and fabricated high-temperature superconductor test equipment with additive manufacturing and custom machining.
- Programmed microcontrollers to talk to test units in vacuum at near absolute zero.
- Wrote and edited research grant proposals for NASA, the Department of Energy and the Department of Defense.

SELECTED PROJECTS

Megawhat (megawhat.vercel.app): Explore what powers the grid, from a live map of power plants to a plain-language look at the electricity behind your own address.

Top Five (beta, topfives.co): Log the entertainment released this year, rank a top five in six categories, and share it in December.

After the Beep (afterthebeep.vercel.app): A handmade answering machine for the internet. Leave a note, and it shows up on a small Arduino device on someone's desk.

Picodia (picodia.com): A daily logic ritual with three puzzles, three lives and one shot a day.

Bungo (mybungo.com): A bouncing virtual pet you tap, feed and dress up, with levels, prestige and friends.

R4 Matrix Studio (arduino-animator.vercel.app): Draw and animate the LED matrix on an Arduino UNO R4 WiFi, then export a sketch that's ready to upload.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML, CSS, C++
Frameworks: React, Next.js, Node.js, Express, Tailwind CSS, Jest, Vitest
Data and cloud: PostgreSQL, Supabase, MongoDB, Firebase, GCP, Vercel, Google Workspace, Tableau
Hardware and games: Arduino, Godot, GDScript, PTC Creo

EDUCATION

B.S. in Mechanical Engineering, Florida State University, Tallahassee, FL 2016

- Graduated top 10 in class from the University Honors College.
- Won "Most Innovative in Design" at the College of Engineering senior design competition.