### Jody Threet

Principal Software Engineer  
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Portfolio Site: [https://jodythreet.dev](https://jodythreet.dev/)  
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### Objective

To leverage my extensive experience in full stack software development and generative AI to drive innovation at a forward-thinking organization.

### Experience

Principal Software Engineer  
Friendly AI, Oregon  
Self-employed  
Feb 2018 - Present (6 years 8 months)

* Full stack software engineer working with generative AI open source software Stable Diffusion to generate images for the Spawn Art project. [https://spawnart.ai](https://spawnart.ai/)
  + (Tech: SolidJS, Typescript, Material-UI, Firestore, Langchain, PostgresQL for vector embeddings / RAG, Stripe)
* Leveraged open source LLMs like Llama 3 to make a web based game engine where characters can take actions autonomously including dialog with players. [https://simweaver.com](https://simweaver.com/)
  + (Tech: Next.js, React.js, Zustand, Shadcn/ui, Tailwind CSS, Langchain, Ollama, OpenAI API)

Principal Software Engineer  
Mentoring Minds, Texas  
Jul 2013 – Feb 2018 (4 years 7 months)

* Managed a team of 9 developers and a Quality Assurance team of 3.
* Designed and implemented full stack software architectures for educational technology products used by K-12 students across thousands of schools.
* Tech: React, Redux, HTML, CSS, JavaScript, Dojo Toolkit, BIRT, MySQL, CouchDB

Principal Software Engineer  
Sleek Software, Texas  
Jan 1998 - Jul 2013 (15 years 7 months)

* Cofounded Sleek Software and managed a team of 4 developers.
* Dramatically reduced the effort teachers needed to generate tests and practice worksheets for print. The Test Genie app was an algorithmic question and answer generator for K-12 educational publishers. (Tech: C++)
* Incredible Tutor was a desktop app for interactive algorithmically generated questions. It was designed as a cross-platform application for Windows and Macintosh. (Tech: C++)
* Drastically reducing operational costs by designing a three-tier architecture for a SaaS product called MySatori which replaced the Incredible Tutor.
  + (Tech: HTML, JavaScript, JSP/Struts, EJB, JMS, Hibernate, MySQL)
* Improved efficiency and scalability while further reducing costs by migrating servers to cloud-based deployments.
  + (Tech: HTML, Javascript, jQuery, Dojo Toolkit, BIRT, CouchDB)

### Education

Ph.D. in Computer Science  
MS in Computer Science  
BS in Mathematics  
The University of Tulsa

### Skills

Programming Languages:

* JavaScript, TypeScript, Python, C#, Java, C++, C

Databases:

* MySQL, PostgreSQL, Firebase, MongoDB, CouchDB, SQL

Frameworks and Tools:

* Next.js, React, Redux, Zustand, HTML, CSS, SolidJS, Prisma, GraphQL, Node.js, Express, Shadcn/ui, Tailwind CSS, Material-UI, Unity 3D, Docker, Stripe, Git, Framer Motion, Keras, Pandas, Generative AI like LLMs and RAG