

Shawn Klein

Software Engineer

shawnklein.net

github.com/carpk

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Summary	Software developer with ten years of programming experience. Highly dedicated to writing clean, agile, test-driven, idiomatic software. Strong desire to deliver high-quality, fully functioning, full-stack web applications. Team player who is comfortable in both individual and leadership roles.		
Skills	Languages – Ruby, Java, C#, JavaScript, SQL Frameworks – Rails, Spring Boot, .NET, Express.js Libraries - React, Angular, Bootstrap, MaterialUI Tools & Services – Vim, VS Code, Git/Github, GNU/Linux, AWS, Heroku, Firebase Methodologies – Agile (Scrum), SOLID, TDD, OOP, Jira		
Projects	Tic-Tac-Toe with AI Opponent	thekleinbottle.com/projects/tictactoe	
	Java Spring backend runs a minimax algorithm that returns the next computer-generated position. Each user submitted move is sent using a JavaScript jQuery Ajax request. Test-driven development.		
	Tatiana's Bakery Storefront	github.com/carpk/bakery	
	Ruby on Rails backend and Angular JavaScript frontend. Admin users can login, create items, crop and upload images to AWS S3, edit/delete items, and perform a search.		
Experience	SWB Management ERP	thekleinbottle.com/projects/erp	
	React, MERN stack, application that supports advanced functionality for managing projects such as creating estimates, Gantt chart time tracking, and assigning employees tasks.		
	Adler Night Sky Controls	thekleinbottle.com/projects/adler	
	C++ Arduino unit reads rotary encoder and adjusts lighting. Three different units commit to three different forms of lighting. Written in C++ and currently on display at the Adler Planetarium.		
	Bridgewater Studio		Chicago, IL
	<i>Software Developer and IT Administrator</i>		<i>Dec 2018 to Present</i>
	<ul style="list-style-type: none">Developed 10+ Python and C++ applications, integrating Raspberry Pi and Arduino units to control marketing displays, increasing user engagement by up to 52%.Engineered an MVP ERP application in React (MERN stack) to streamline operational efficiency for a 50-member team.Guided external developers in deploying and managing a custom application on AWS CDK.Created IT infrastructure, including MS SQL Server, Linux-based network monitoring solutions, SEIM software, VLANs, and a custom configured pfSense firewall.Authored comprehensive IT policies, enhancing departmental compliance and efficiency.		
	Wynn Dalco		Chicago, IL
	<i>Lead IT Technician</i>		<i>Mar 2015 to Oct 2018</i>
	<ul style="list-style-type: none">Lead Computer technician to Chicago Public Schools serving 630 schools with 330k students.Leveraged Python scripts to cleanse and fill missing data in datasets of 150k+ records.Conducted comprehensive training sessions on CPS software and device management.		
	8th Light		Chicago, IL
	<i>Software Developer Apprentice</i>		<i>Apr 2014 to Oct 2014</i>
	<ul style="list-style-type: none">Developed Ruby on Rails web applications employing test-driven development, agile, and SOLID principles, resulting in 45% reduction in post-launch bugs.Collaborated in teams of 5 apprentices to refactor and optimize legacy Java applications.		
	University of Illinois at Chicago		May 2023
Education	Bachelor of Computer Science		
	Dev Bootcamp		April 2014
	Ruby on Rails, JS, and SQL code school		