

Zeeshan Yousuf

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SUMMARY

Senior Full Stack Engineer & Agentic AI Practitioner with 17+ years of experience designing and delivering complex, production-grade web platforms and business systems. Proven track record building large-scale applications from scratch across healthcare, nonprofit, and construction industries. Since 2025, I have led the design and implementation of agentic AI development workflows using Claude Code - including custom agents, skills, hooks, and MCP integrations - that automate the full engineering lifecycle from ticket intake to pull request creation, code review, and Slack publishing.

SKILLS

- **AI & Agentic Development:** Claude Code, Agentic Workflows, Custom AI Agents, MCP Servers, Prompt Engineering, AI-assisted Development, Playwright
- **Engineering:** Product Roadmap, Backend & Infrastructure, Cloud Architecture, API Development & Integration, RESTful Web Services, Microservices, App Lifecycle Management, Data Modeling/Visualization, Software Design & Coding, Testing & Code Coverage, CI/CD, DevOps, RDBMS, Database Design, Software Quality, Scalability, Performance, Reliability, Automation, Code Reviews, Documentation
- **Leadership:** Strategic Planning & Execution, Project Management, Prioritization, Process Improvement, Cross-functional Collaboration, Staff Management, Training & Development, Coaching & Mentorship, Interdepartmental Alignment, Change Management, Budgeting & Resource Allocation, Executive Reporting
- **Software:** PHP, JavaScript, TypeScript, Vue.js, Node.js, Laravel, CakePHP 4/5, CodeIgniter, MongoDB, DynamoDB, Laravel Spark, Ext JS (Grids), Sass, jQuery, SaaS, Vagrant, AWS (EC2, RDS, Amplify, CodeCommit, Cognito, S3, API Gateway), Stripe, Authorize.net, JSON/XML, HTML, CSS, Git, SVN, SSH, JIRA, Basecamp, GitHub, Bitbucket, Docker, MySQL, MS SQL, Redis, Sublime, Open Graph API, Twitter API, Google API, WordPress, Agile/Scrum, Apache, LAMP, NGINX, Ajax, OAuth, Magento, Linux, Node.js, MVC, Bootstrap, Twilio, NPM, Composer

Projects

FinAgent - AI-Powered Personal Finance Assistant

finagent.zeeshanyousuf.io | github.com/ZeeshanYousuf/finagent

- Built a production-grade RAG (Retrieval-Augmented Generation) application using Python, FastAPI, ChromaDB, and Anthropic Claude API
- Implemented semantic vector search over personal financial data, supporting natural language queries like 'How much did I spend on food?'
- Designed multi-user session isolation, conversation memory with history trimming, anomaly detection, and spending categorization
- Deployed on AWS EC2 with nginx, SSL, and Route 53 custom subdomain (<https://finagent.zeeshanyousuf.io>)

RELEVANT EXPERIENCE

Senior Software Engineer, Orases

Aug 2022 - Present

- Designed and implemented agentic AI development workflows using Claude Code - custom agents, skills, commands, and hooks that autonomously handle the full engineering lifecycle: from Jira ticket intake and branch creation to automated code review, Playwright testing, creating pull requests in AWS CodeCommit, and publishing to Slack for team review.

Mentoring.org - MentorConnect Platform

- Built a national mentoring platform from scratch for Mentoring.org, replacing a legacy Drupal system with a CakePHP 4.6 REST API backend, Vue.js/TypeScript frontend, and an embeddable Symfony search widget, now supporting 3,000+ programs across all 50 U.S. states and Canada.
- Developed core backend features including geo-proximity search (Haversine formula), inquiry management, NQMS quality assessments, affiliate management, webhooks, and reporting dashboards, along with a role-based permission system controlling access for system admins, affiliate coordinators, and program administrators.
- Delivered a multi-language (English/French), multi-country platform with Redis caching, partner attribution tracking, and a 3-environment deployment pipeline (review → staging → production).

Spectrum Science - TrialBlazer

- Developed TrialBlazer, a HIPAA-compliant clinical trial platform for Spectrum Science, building the CakePHP backend API, Vue.js frontend, custom survey/form builder, participant portal, and reporting/metrics dashboards from the ground up.

- Integrated Multiple Referral Management Systems (RMS) to route qualified clinical trial candidates to study sites in real time, and implemented a multi-region architecture (US and EU) to ensure PII/PHI data never crossed regional boundaries per compliance requirements.

Associated Builders and Contractors - ABC AMS

- Serving as primary developer on ABC AMS, a large-scale association management system built from scratch in CakePHP 5 to replace the legacy CHAD platform for Associated Builders and Contractors, a national trade association with 21,000+ members across 68 chapters, handling membership lifecycle, dues billing, events, committees, reporting, PAC tracking, and Stripe/Authorize.net payment processing.
- Carried the project as sole developer for several months following the original lead's departure, maintaining continuity across a complex multi-plugin architecture, and solely designed and built Phase 2 - a full education/LMS module covering courses, instructors, students, grades, attendance, and on-the-job training (OJT) - with Phase 1 launching April–May 2026 and Phase 2 in July–August 2026.

Team Lead, LoneWolf

Nov 2017 - Aug 2022

- Oversee a team of 5 US and Offshore teams managing Boldleads.com/PropertyBase.com, a CRM used by 4K real state clients to generate and manage leads, conduct marketing, and set up the sales funnel via SMS/email.
- Created a backend process to reshape the company lead distributing system by revamping logic and formulas to increase the quality of leads delivered to customers by 40%.
- Implemented stripe and Avalara APIs for subscriptions, discounts, and taxes during customer sign up and scheduled one-off payments and refunds from the staff portal to reduce manual work by 45 minutes.
- Reduced customer turnaround time from 36 hours to 1 hour by automating customer signups/setups.
- Led the automation of the customer cancellation process to replace a 10-day manual workflow with a few simple clicks.
- Built new tools for custom FB campaigns and developed a dashboard for the marketing team to monitor performance.
- Implemented Facebook API to automate campaigns and save 30 minutes of manual work for each customer campaign
- Refactored and upgraded code to PHP 7.3, assisted with the transition from Rackspace to AWS, and converted the project to a standard query-builder repo to establish a unified approach to querying the database.

PHP Developer/Independent Contractor

May 2017 - Oct 2017

- Worked with a 4-person team to develop an all-in-one social, eCommerce, and finance application with Quickbook APIs and Xero APIs, Google APIs, an in-app chat system, and payments via dropbox, social, and stripe.

Team Lead, Cooperative Computing

2014 - 2017

- Led the development of Ranger Wireless, a roaming service solution that enables subscribers to contact home country customer care centers when traveling abroad and Muvpeople, a comprehensive corporate transportation management app.
- Designed the app architecture including the interfaces, databases, and connectivity with the external services, and developed advanced database-driven websites and systems with a team of 6 PHP developers.
- Led communication with the C-Suite, senior stakeholders, and clients to align product goals and business objectives.
- Oversaw the training, mentoring, and guidance of 12+ junior team members.

Senior Software Engineer, Cooperative Computing

April 2013 - December 2013

- Led the development of fullstack software products including Muvpeople throughout the software lifecycle from requirements definition through to successful deployment with a 3-person team.
- Worked on a Vendor management system and Transportation management system on Muv people.
- Recommended architectural improvements, design solutions, and integration solutions.

Lead Developer, Swapmob

2011 - 2013

- Created Swapmob, a social trading network for 2 games with 50K users that served as an auction house hub for players to buy and trade virtual goods using CodeIgniter, Javascript, jQuery, Node.js, and socket.io.
- Developed and integrated the frontend bidding system as a web widget using PotFarm and Howzat Cricket to make end-to-end connections between the client and server.
- Increased average revenue per user by developing virtual currency conversions and cross-promotion tools.

Web Developer, Social Cubix

2009 - 2011

- Worked with brands to design and develop CMS-based eCommerce websites for brands including Sony, Converse, and Unilever while ensuring web page quality and performance to optimize the user experience.

- Developed 50 Facebook Applications using CodeIgniter, FBML, FBJS, FQL and PHP, and MySQL.