

# DALE LOTTS

## PROFESSIONAL SUMMARY

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Global Agile / Extreme Programming (XP) software engineer who helps organizations better meet customers' needs by improving technical practices, software quality, and team predictability

- Extensive hands-on experience in software development and architecture and agile development methodologies
- 9 years of hands-on experience with teaching eXtreme Programming and professional software engineering skills
- Proven track record of tactical solutions that balance technical quality with functionality on aggressive timelines
- Experience working with upper management to lead and implement business-critical initiatives
- Experience working at international locations and adapting to local culture and customs

## TECHNICAL SKILLS

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- Frontend: React, Angular, Bootstrap, MUI, JavaScript, TypeScript, Java, i18n, a11y, Server Side Rendering
- Backend: Microservices, REST, Node, Java, Python, Express, Spring Boot, Swagger, RDBMS, MongoDB
- Quality: Test-first Automation, Mocking, e2e Testing, Jest, Cypress, Codecept, Testing Library, Storybook
- DevOps: CI/CD, Docker, Kubernetes, AWS, IBM Cloud, Cloud Foundry, Jenkins, Tekton, ArgoCD, GitOps
- Agile: eXtreme Programming, DevOps, Scrum, Kanban, User Stories, Emergent Design, Pair Programming

## PROFESSIONAL EXPERIENCE

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### Magnit @ Meta (Formerly Facebook) Senior Software Engineer V

April 2022 to Present

- Design and implement custom hardware simulation testing system for the Meta Training Inference Accelerator program
- Double ASIC developer productivity by developing a custom automated test runner for multiple hardware simulators
  - Enabled batch and selective test execution; simplified test addition and modification
  - Cut nightly test run times from 8+ hours to <30 minutes on average; streamlined test management
- Train developers in Infrastructure team on how to build internal dashboards using React, and Flow

### Knight Rider Consulting Software Architect and Technical Coach

1997 to Present

- Elevate teams from 'Doing' Agile to 'Being' and 'Living' Agile
- Design and deliver educational presentations – e.g., Introduction to TDD, Introduction to Angular, TDD Angular, Introduction to React, TDD React, Introduction to Meta Programming, Extreme Programming, etc.

Example engagements:

### IBM through Upslope.io, Minneapolis, London, and Barcelona Senior Software Engineer and Lead Instructor

May 2021 – Nov 2021

- Delivered bootcamp style training to enterprise developers to apply DevOps and XP
- Helped students learn to create CI/CD pipelines from scratch using first principles and Kubernetes (K8S), OpenShift, Tekton, ArgoCD, Docker, Node, React, and more

### Thinkful, Remote Senior Curriculum Developer

July 2020 – July 2021

- One of three developers involved in improving and standardizing the full-stack curriculum
- Introduced several innovations such automated publication of student assessments to Qualified.io
- Authored bootcamp style full stack training for React, Express, Node, Knex, PostgreSQL, and more

### Allstate, Cognizant, USAA through Galvanize, Belfast Ireland, Multiple USA locations Lead Enterprise Instructor

Nov 2018 – Nov 2019  
July 2017 – Sept 2017  
March 2016 – Feb 2017

- Designed and created standardized Extreme Programming (XP) curriculum
- Introduced several classroom innovations such as Red/Green flags, exit tickets, popsicle sticks, Net Comprehension Score, Net Promoter Score, User Manual Students, and formalized instructor experiments
- Delivered bootcamp training to help Fortune 100 enterprise developers apply Extreme Programming
- Live-coded in front of 30 students while simultaneously checking for their understanding of the material

- Taught more than 100 new technologies and techniques in 12 weeks
- Embedded with teams to adopt XP practices through direct pairing while implementing features using a variety of technologies including NodeJS and React

**American Airlines engagement through Upslope.io, TX**

**March 2018 – Oct 2018**

**Senior Software Engineer**

**June 2023 – August 2023**

- Acted as player-coach and embedded on-site with development teams to help them focus on delivering value
- Helped teams focus on the essence of lean, agile, and XP without resorting to dogma
- Evaluated the technical skills of dozens of full-time and contract software engineers
- Helped teams to confront and manage risk as soon as possible while improving collaboration
- Train ADEPT program participants to develop full-stack applications using Angular 16 and Node

**Veritas Technologies, MN**

**March 2017 – June 2017**

**Senior Technical Consultant on VDL**

- Embedded with a team of remote developers to deliver a company standard UI/UX module using Angular 5, Protractor, Jasmine, TypeScript, Node, Jenkins, Docker, Selenium, and Git
- Helped the team move from Scrum with a two-week release cycle to Kanban with a Continuous Delivery pipeline that automatically released a new version of the module for every commit to master

**Luminät, MN**

**Dec 2015 – Feb 2016**

**Senior Angular Engineer**

- Designed and implemented full stack rewrite of Advanced Care Planning product in less than three months
- Coached the team to adopt Unit Testing, Pair Programming, and Continuous Delivery

**Visa, Inc., engagement through SolutionsIQ, CA**

**July 2015 – Nov 2015**

**Agile Technical Coach**

- Coached four teams participating in the Global Product Agile Transformation
- Created and delivered multiple one-hour brown bag training sessions on adopting Unit Testing, Pair Programming, Continuous Integration, Automated API testing, and Automated Regression Testing

**Johnson & Johnson engagement through SolutionsIQ, NJ**

**April 2015 – May 2015**

**Agile Technical Coach**

- Evaluated team performance and recommended adoption of CI, TDD, Pair Programming, and Continuous Delivery

**Boost Agile, Shanghai, China**

**2012 - 2013**

**Agile Technical Coach**

- Delivered two-day Scrum Master courses and community education presentations (e.g., on TDD, Angular, Agile Best Practices, and Coding Dojos)
- Participated in technical retrospectives with clients such as PayPal and Spirent

**Pearson VUE, Bloomington, MN**

**Software Engineering roles of increasing responsibility up to Senior Software Architect**

**1996 - 2012**

**Senior Software Architect / Agile Technical Coach**

**Oct 2013 – Dec 2014**

- Initiated and facilitated a "Pearson VUE Day of CodeRetreat" to help developers learn technical new skills
- Introduced new development practices including TDD, Pair Programming, and CI-enforced 100% code coverage
- Designed and implemented a RTF-based exam definition language which allowed Pearson VUE to receive exam content from clients. Saved approximately 20,000 hours of manual data manipulation per year
- Designed and implemented an automated daily build process for all test development products, saving 10-15 hours a week and facilitating daily (rather than weekly) deployment to QA
- Designed and implemented computer adaptive selection and scoring architecture, which is the basis for multiple medical licensure clients like NCLEX, ARRT, ABIM, ABEM, NABP, NREMT, and ACT

**EDUCATION & CERTIFICATION**

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**University of Wisconsin, Eau Claire, WI**

Coursework toward a Bachelor of Science Degree in Computer Science with an emphasis in Software Engineering

- Certified Scrum Master
- Certified Product Owner