

SEMPER SUPRA

# USSF Software Development Immersive 2 Oct 2020



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SUPRA CODERS

#BuiltBySupras



galvanize



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CAMP

# Introductions



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CHTRON



# Motivation

“DoD must be able to develop, procure, assure, deploy, and continuously improve software faster than our adversaries. Unfortunately, the DoD still treats software much like hardware, and often misunderstands the relationship between speed and security. As a result, a large amount of DoD’s software takes too long, costs too much, and is too brittle to be competitive in the long run. If DoD does not take steps to modernize its software acquisition and development practices, we will no longer have the best military in the world, no matter how much we invest or how talented and dedicated our armed forces may be.”

-Defense Innovation Board, 2019



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# Motivation

Problem: “Software is made by people and for people, so digital talent matters. DoD’s current personnel processes and culture will not allow its military and civilian software capabilities to grow nearly fast or deep enough to meet its mission needs. New mechanisms are needed for attracting, educating, retaining, and promoting digital talent and for supporting the workforce to follow modern practices, including developing software hand in hand with users.”

Solution: “Expand the use of (specialized) training programs that provide (hands-on) insight into modern software development (e.g., Agile, DevOps, DevSecOps) and the authorities available to enable rapid acquisition of software.”

-Defense Innovation Board, 2019



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# Big Picture



\*unofficial logo



The intent is to build a community of software developers within the Space Force with in-depth DevSecOps experience, including deploying code to production. This first cohort will be a pathfinder for the future of software development knowledge-building within the Space Force



# SDI Schedule

Weeks 1-5

JS Fundamentals,  
Pair Programming,  
OOP in JavaScript,  
HTML, React,  
Databases, Docker

Week 6

Build a full-stack  
CRUD application as  
a part of a team

Weeks 7-8

Java Fundamentals,  
OOP in Java, Spring

Week 9

Build a Spring API as  
a pair

Week 10

Test Driven  
Development (TDD),  
TDD in JavaScript,  
TDD in Java

Weeks 11-12

Build a tested full-  
stack application  
and deploy through  
Platform One

Weeks 13+

Work on mission  
system product with  
new application or  
existing USSF or  
ABMS product team





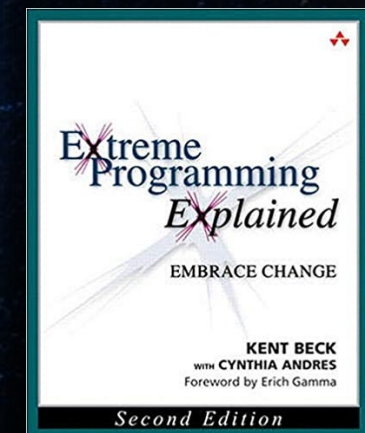
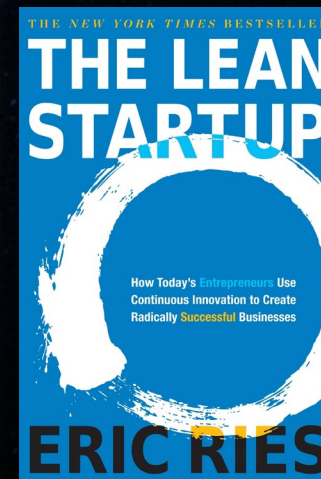
# Resources

Supra Coders Website: [supracoders.us](https://supracoders.us)

Apply at: <https://auth.galvanize.com/register?uid=785290cba96b236082>  
(pre-work and application assessment available here)

Platform One Website: [p1.dsop.io](https://p1.dsop.io)

AF Chief Software Officer Website: [software.af.mil](https://software.af.mil)





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# Ask Me Anything

Please ensure you write your question in the chat box so our moderators can ensure your questions get answered! If you would like your question answered offline, please provide an email address. Thank you!



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