

Carlton Northern

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SKILLS

PROGRAMMING LANGUAGES	JavaScript, HTML, CSS, PHP, Java, C++, Python, YAML
PLATFORMS	Android, iOS, Linux, Gitlab, Azure DevOps, AWS
TECHNOLOGIES	Kafka, Docker, Kubernetes, RDF, TPM, ARM Trustzone, Postgres, Mongo
CONCEPTS	CI/CD, DevOps, IaC, GitOps, Microservices, Regression Testing

EDUCATION

OLD DOMINION UNIVERSITY | MS, BS, COMPUTER SCIENCE

Norfolk, VA

ODU WEB SCIENCE RESEARCH GROUP | RESEARCH ASSISTANT

Norfolk, VA | May 2009 – May 2011

- Developed the ArchiveFacebook Add-On for Firefox that allows a user of Facebook to archive their content.

WORK EXPERIENCE

MITRE | PRINCIPAL SOFTWARE DELIVERY ENGINEER

San Diego, CA | Apr 2018 – Present

- Leading the Space Force Kobayashi Maru Blue Team (cross-FFRDC) to improve delivery of a large space domain awareness application in response to congressional enagements.
- Coached a Navy NDAA Section 873 Agile - DevOps pilot program. Helped modernize a Navy software development effort by adopting concepts such as CI/CD, containerization, automated testing, and shifting left on security and operational concerns.

MITRE | GROUP LEADER

San Diego, CA | August 2015 – Present

- Care for a team of Software Engineers to ensure they are impactful, growing professionally, and have a sense of purpose.

MITRE | LEAD SOFTWARE ENGINEER

Hampton, VA | March 2014 – April 2018

- Led a multi-team research effort to build a multi-domain command and control architecture via rapid prototyping and experimentation. Has since been transitioned to operational use by the Air Force.
- Helped the Army stand up a mobile development capability and app store for training and education. <https://rdl.train.army.mil/catalog/tag/home>

MITRE | SENIOR SOFTWARE ENGINEER

Hampton, VA | June 2008 – March 2014

- Created and implemented an enterprise mobile security strategy for the White House Communications Agency that resulted in first agency-wide smartphone deployment.
- Developed an Android app to share the location of special forces units using SMS text messages without a data network.
- Developed a Windows and Android app for an Army munitions prototype using Java.

GDIT | SOFTWARE ENGINEER

Suffolk, VA | May 2005 – July 2008

- Developed a unit order of battle data correlation tool to aid with modeling and simulation scenario generation data.

PUBLICATIONS

MOBILE PER-APP SECURITY SETTINGS - Future of Information and Communications 2021

ASSESSING AND IMPROVING MOBILE APP SECURITY - Android Security Symposium 2017

TPM 2.0 MOBILE SPECIFICATION - Trusted Computing Group 2014

AN UNSUPERVISED APPROACH TO DISCOVERING AND DISAMBIGUATING SOCIAL MEDIA PROFILES - Knowledge Discovery and Data Mining Conference 2011