Tom Wu

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Skills

- **Languages (Most to least familiar)**: Golang, Python, JavaScript

- **Technologies**: Hands-on experience with DynamoDB, EC2, ECS, Route53, Linux and Kubernetes

Experience

- **Capital One** *Aug. 2019 – Present*
  Software Engineer
  - **User Sessions**: Added role-based access control to internal monitoring platform by designing and implementing user sessions using Go, DynamoDB and JSON Web Tokens
  - **Marketing Campaign**: Enabled marketing rollout to ∼16000 recipients by designing and developing email compliance checks in a microservice using Go and HubSpot APIs
  - **Infrastructure Resiliency**: Configured Route53 and deployed multi-region active-active ECS services using internal tool for automated cross-region fail-over/fail-back
  - **Run the Engine**: Fixed infrastructure vulnerabilities for EC2s, debugged production issues using Splunk and provided client support for our services
  - **CI/CD**: Enabled automated builds, unit & regression testing, and deployment of APIs by configuring internal Jenkins pipeline
  - **Kubernetes**: Wrote runbook for deploying clusters using Kubernetes Cluster API that was leveraged in internal Kubernetes platform

- **Cerner Corporation** *May 2018 – Aug. 2018*
  Software Intern
  - **Visual Regression Testing**: Increased test coverage on repository of React components using WebdriverIO visual regression tests
  - **Search Filter React Component**: Created and added a React.js search filter to an open source library

- **Security Economics Lab** *May 2017 – May 2018*
  Research Assistant
  - **Data Collection**: Scraped transaction records from Bitcoin Exchanges daily using a Selenium web scraper. Identified posts correlating to price peaks on ∼700 Altcoins by parsing web forum content
  - **Crypto News Classification**: Crowdsourced manual classification of ∼1000 news articles as reporting security breaches by creating web app using Django

Certifications

- **Certified Kubernetes Administrator (Apr. 2020)**: Scored 96 in hands-on Kubernetes Administrator exam to earn Cloud-Native Compute Foundation certification

- **AWS Solutions Architect Associate (Nov. 2019)**: Certified AWS Solutions Architect associate

Education

- **University of Tulsa** *Aug. 2016 – May 2019*
  B.S Computer Science; GPA: 4.00; President's Honor Roll