Jack Dolan

Boston, MA

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Summary

U.S. Air Force Officer & Senior Software Engineer with an 8-year track record of driving innovation and results:

- Led development of four critical air-warfighting applications used 24/7 globally, improved app load time by >10x
- Tech lead in hybrid military/civilian software org, drove org's first Kubernetes on-board, improved practices
- Director of 10-member technical team to develop standards for $1.8B next generation of military GPS receivers

- **Skills:** Python | Java | Spring | TypeScript | React | TensorFlow | Neural Networks | Sentiment Analysis | Computer Vision | NumPy | Scikit-Learn | C++ | MATLAB | Go
- **Utilities:** Git | Docker | Kubernetes | SQL | Tableau | Windows & Unix | GitLab CI/CD | AWS | Heroku
- **Security Clearance:** US Top Secret, SCI Eligible

Experience

- **Senior DevSecOps Software Engineer**, Kessel Run (U.S. Air Force), Boston, MA   06/2020 - Present
  Directed 12-member engineering team in building software for 10K users to deprecate a $1.6B legacy system
  - Automates event-sourced data sync across 10 deployment environments, repairing & preventing corrupt data
  - Delivers tech talks and trains SWEs on strategy for maintainable s/w upgrades with blue/green deployments
  - Hand-picked for rapid outage response team, led to average restore time of <90 mins, cut down-time by 72%

- **Developmental Engineering Lead Officer**, U.S. Air Force, Los Angeles, CA   07/2016 - 06/2020
  GPS Integrated Circuit and Satellite Communication Systems Engineering Lead
  - Led HW & SW development for next-gen ASIC for GPS air/land/sea, balanced 500+ stakeholder requirements
  - Managed tech risk, schedule, and performance for GPS receiver spec docs supporting $1.8B request for quotes
  - Technical lead and assessor for long-lead (2040) $30M high-bandwidth satellite communication experiments

- **Intern**, Sikorsky Aircraft, Stratford, CT   05/2014 - 08/2014, 05/2015 - 08/2015
  Program Management and Business Acquisition Intern for the Sikorsky CH-53K Heavy Lift Airframe
  - Managed 30k+ item bill of materials for stakeholders of CH-53K helicopter program, honed schedule feasibility
  - Analyzed program budget, recommended allocation of funds for remainder of FY14 & FY15 to div leadership

Education

- **Master of Science, Computer Science**, Specialization in Machine Learning   05/2019 - 11/2022
  Georgia Institute of Technology, Atlanta, GA, GPA: 4.0

- **Bachelor of Science, Computer Engineering**   09/2012 - 05/2016
  Boston University, Boston, MA
  Simultaneously completed Air Force officer training via Air Force ROTC

Additional Information

- **Awards:** Officer/Engineer of the Year: 2022, 2021, 2020, 2019; Academic Excellence: 2013, 2016
- **Projects:**
  - Reddit Bot (Python, Telegram and Google Translate APIs)
    - Bot to translate posts to selected languages, then back to English, controlled via Telegram bot
    - Cloud-deployed app as a Heroku dyno
  - Liquid Rocket Thrust Vectoring Firmware – Senior Capstone (C, Python)
    - Awarded Boston University Electrical and Computer Engineering Design Excellence award
    - Built/integrated multi-threaded firmware to handle I/O telemetry data and gimbal rocket engine
    - Python socket programming to interface firmware with rocket's sensors via Ethernet