J/M Jen Macklin

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SKILLS

Programming Languages:

Java | C | Python | JavaScript |TypeScript | Swift

Frameworks: Angular | React

Deployment: Docker | Kubernetes | AWS

Adobe Creative Cloud Suite: Photoshop, Illustrator, XD, Premiere, InDesign, Dreamweaver, Lightroom

Microsoft O365: SharePoint developer, Office

Product Management & Planning: Jira, Confluence, Trello, Miro

EDUCATION

Master of Computer & Information Technology (May 2022)
University of Pennsylvania

Master of Business Administration
Webster University

Bachelor of Fine Arts
University of Illinois-Chicago
Photography

LEADERSHIP

US Air Force Air Command & Staff College

US Air Force Organization Leaders' Course

US Air Force Leadership for Squadron Command

EXPERIENCE

Software Engineer – Research Assistantship
University of Pennsylvania/Penn Vet New Bolton Center/ Remote / 1/2021 – 9/2021

Volunteer part-time research position in addition to current role in International Affairs.

- Sole software developer on major equine lameness study; developing application to integrate wearable sensors and analyze data output
- Responsible for system design, testing, algorithm integration and user interface using Java and the sensor's API

Software Engineer
United States Space Force/SpaceCAMP/ Remote / 5/2020 – 8/2020 / Gravitron Team

Part-time software engineer detail in addition to current role in International Affairs

- Key developer on EOS, a mission tracking application supporting space operations
- Applied DevSecOps agile processes to continuously iterate on software improvements
- Employed Java Spring Boot framework to develop microservices in product backend

International Affairs – Politico-Military Advisor
United States Space Force / Patrick Space Force Base, FL / 5/2016 – Present / Plans & Programs

International affairs and arms control treaties advisor providing analysis for senior leaders

- Represents US military at diplomatic engagements and advises on strategies to further national security interests
- Established international agreement negotiation position which saved $150M
- Special projects and strategic planner; managed RAND Corp military spaceport study
- Developed SharePoint web application to replace legacy software, saving $500k

Operations Security & Foreign Disclosure Program Manager
United States Air Force / Patrick Space Force Base, FL / 3/2011 – 5/2016 / Information Protection

Program Manager for two complex programs involving protection of national security interests

- Performed risk analysis on national defense assets—expertise recognized with multiple Air Force annual awards
- Facilitated 1700 foreign visitors and analyzed 500 products for disclosure while reducing processing times by 50% at world's busiest space port
- Developed database solution which enabled cross-functional trend analysis for key personnel

Recent Projects

- Designed Angular web application which integrates with NASA's API to showcase Mars Weather and the Astronomy Photo of the Day
- Won second place in hackathon competition for JavaScript Slack chatbot integration
- Integral team member on Java adventure and trivia game; built frontend, backend & UI
- Hosted virtual student club hackathon; coordinated judging, prizes, marketing, kickoff webinar and event website management.

ACTIVITIES & OTHER INFORMATION

Co-Director, Education and Learning Committee, MOSA, Penn Clubs
CompTIA Security+ | Current TS/SCI security clearance | US Air Force Veteran