

James Kavanaugh

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Software Engineer

Skilled, bilingual software engineer and proven leader with 20 years experience leading high-performance teams.

Projects

- **Marine construction permitting system:** Client relationship management (CRM) application implemented with Typescript, React, AWS, websockets, and MongoDB to manage multi-year permitting processes.
- **Web socket framework:** Typescript and Node.js web socket framework with message schema validation to enable real-time synchronization of web applications and maintain data consistency.
- **Encrypted synthetic data research (ongoing):** Python and C++ based research using homomorphic encryption and differential privacy to maintain privacy of sensitive datasets while generating synthetic data.
- **Computer vision application (ongoing):** C++, OpenCV and Tensorflow models to monitor RTSP camera streams, with macOS and tvOS client applications to view home security camera and insights.

Experience

President and CEO (Owner)	North Slope Software	2022-2024
<ul style="list-style-type: none">• Designed and implemented a client relationship management system for a marine construction company.• Responsible for business development, user experience design, software development, and DevOps.• Designed, and implemented an enterprise resource planning software-as-a-service (SaaS) product.		
U.S. Army Special Forces “Green Berets”	1 st Special Forces Group (Airborne)	2004-2024
Indo-Pacific Regional Program Manager (18Z)	Washington and overseas	2020-2024
<ul style="list-style-type: none">• Led a diverse, multifunctional staff to manage joint special operations teams in seven Asian countries.• Mentored and developed leaders and technicians on high-performing teams to achieve strategic objectives.• Responsible for written communication and briefings to synchronize operations with senior leaders’ intent.		
Operations Manager (18Z)	Washington and overseas	2018-2020
<ul style="list-style-type: none">• Managed a high-performance, multifunctional, and highly specialized special forces detachment.• Responsible for training, mentorship, and professional development for a Special Forces operational detachment.		
Assistant Operations Manager (18F)	Washington and overseas	2012-2018
<ul style="list-style-type: none">• Responsible for analysis and targeting to plan tactical operations for a Special Forces detachment.• Regularly worked cooperatively with Iraqi, Philippine, Afghani, Korean, and Thai military partners.• Gained working proficiency in Mandarin Chinese during two language exchange trips to Shenyang, China.		

Skills

C++	Python	Javascript	Node.js	React
Typescript	AWS	Docker	REST	Postgres / SQL
MongoDB / NoSQL	Git	Jupyter / CoLab	Tensorflow	OpenCV

Education

M.S. Computer Science and Systems	University of Washington	December 2024
B.S. Software Engineering	Arizona State University	2022
Intensive Second Year Chinese Program	University of Washington	2013