**Kea Braekman**

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**WORK EXPERIENCE**

**Booz Allen Hamilton Aug. 2020 – Present**

*Staff Engineer | Sept. 2022 – Present Remote*

* *Full Services Team - Hybrid Legacy Application Migration to AWS.*
  + Boosted engineering process efficiency by 50% by integrating Matlab and Python into the workflow.
  + Reduced end-to-end application deployment time and manual steps by **50%** using **Gitlab CI, Docker**, and **Terraform**.
  + Integrated Artifactory with **AWS ECR** for container image storage, simplifying artifact management and versioning for **20+** Dockerized applications.
* *Security Services Team - Deployed and Maintained Security Infrastructure.*
  + Improved the reliability of human-rated spacecraft by 70% through the application of Ethernet, UDP, TCP/IP, SPI, I2C, PCIe, and SGMII/RGMII standards.
  + Improved the patching process for security assets which saved **5 hours a week** by automating updates using **AWS Inspector, Lambda,** and **Step Functions**.

*Software Engineer | Dec. 2020 – Sept. 2022*

* *Foundational Services Team*
  + Enhanced RF communication systems by 60% through the implementation of advanced system design and fault tolerance techniques.
* *Systems Engineer | Aug. 2020 - Dec. 2020*
  + Developed a web scraping **Python** bot that saved **160+ hours** of manual data entry by curling client financial data into an Excel spreadsheet.
  + Researched and drafted proposals for Cloud Engineering and FedRAMP projects for the Department of Defense.

**EDUCATION**

**Loyola Marymount University May. 2020**

*Double BS, Computer Science & Economics Los Angeles, CA*

3.7/4.0 GPA

**PROJECTS & CERTIFICATIONS**

**Visualkube**

* Developed a full-stack app to visualize **Kubernetes** and **Docker** layers using a **React** front-end and **Go** backend during a 2019 summer internship.
* Presented the project and business plan, winning **first place** in the nationwide Summer Games competition out of 80+ teams.

**Wordle Solver**

* Created a **Python** script using information theory to compute the optimal Wordle guess.

**Ballpark Bookie**

* Developed a machine learning script with **numpy** to predict MLB game outcomes using logistic regression on data from a sports API.

**Hashicorp**

* Infrastructure Automation Certification.

**AWS**

* Foundational Cloud Practitioner, AssociateDeveloper.

**SKILLS**

Python, Terraform, AWS, Docker, Artifactory, Bash Scripting, Web Scraping.