

Mehmet Yilmaz

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WORK EXPERIENCE

eBay - Software Engineer (Contracted via Hitachi Vantara) - Remote May 2021 - Present

- Enhancing the Storage Management System (STMS) project to ingest 1.5+ million metrics per minute and growing. Accounting for 70+ arrays, 60+ switches, 1100+ hosts, 900+ disk groups and 200+ clusters in 3 of eBay's data centers.
- Managing and deploying over 20 services across 3 regions ensuring high availability with failover for STMS.
- Spearheaded the migration from MongoDB to Postgres for all STMS microservices, restructuring nested documents into tables, utilizing the Sequelize ORM, and integrating middleware for a seamless transition.
- Undertook and improved log monitoring ingestions for Hitachi arrays and Brocade switches, processing 19,800+ logs and dispatching 6,800+ alerts daily to the storage team using Python and Rsyslog via Email, Slack, and PagerDuty.
- Overseeing microservices for processing hardware metrics, facilitating CRUD operations, and providing real-time hardware state/data to other internal eBay services.
- Leveraging Docker, eBay's container registry, and Kubernetes to streamline the containerization, deployment, and management of microservices, ensuring scalability and high availability for STMS.
- Strengthening STMS microservices by utilizing JavaScript, Node.js, Express.js, Python, Flask, Mongoose, and Sequelize to craft efficient RESTful APIs.

Colorado School of Mines - Research Assistant - Golden, CO Feb 2021 - Sep 2021

- Undergraduate Research Fellow at the Human-Centered Robotics Lab, mentored by Dr. Hao Zhang.
- Enhanced the functionality of triangular omni-wheel ground robots, called Tritons, using Python and ROS. Enabled precise movement, accurate rotation, and simultaneous control of multiple Tritons.
- Implemented proportional feedback systems using Optitrack Cameras and ROS, enabling the Triton robots to precisely reach a specified real-world coordinate with a tolerance of +/- 0.05m within a 2m by 2m area.

TECHNICAL SKILLS

Languages:	Python, JavaScript, Bash Script, GoLang, Java, C++, C
Databases:	Postgres, MySQL, MongoDB
Web Development:	Node.js, Sequelize (ORM), Express.js, Mongoose, Linux, npm, Yarn, Markdown
Cloud:	Docker, Kubernetes, Tess.IO (eBay's cloud platform), Vercel, Supabase
Tools:	Git, GitHub, Zsh, Bash, VSCode, Vim, Postman, MacOS, Slack, Discord, Jira

SIDE PROJECTS

Notify Cyber : <https://notifycyber.com/> Feb 2022 - Present

- Led end-to-end development of Notify Cyber, aggregating cybersecurity news from multiple sources into a comprehensive news feed, resulting in over 6200 visitors in the first month and averaging 30 daily visitors.
- Engineered a Python web scraper to extract and process web articles, leveraging OpenAI's ChatGPT API (GPT-3.5) for summarization, ensuring efficient database population.
- Designed, deployed, and managed the project's Postgres database hosted on the Supabase cloud service.
- Successfully generated significant interest in the platform's upcoming Email alert service for new vulnerabilities, amassing a waitlist of over 140 eager subscribers.
- Minimized monthly operational costs to \$3, covering the cost of the database, scraper, OpenAI API, & Vercel hosting.

EDUCATION

Colorado School of Mines - Golden, CO
Bachelor of Science in Computer Science

Aug 2018 - May 2022