

Youssef Ben Taleb

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EDUCATION

University Of Washington

BS/MS in Computer Science and Engineering, June 2024

GPA: 3.96

EXPERIENCE

Software Engineer Intern | Aserto:

Jun 2022 – Current

- Transitioning Aserto's authorizer from a Software as a Service to a Function as a Service.
- Designed and led a scalable OpenFaas app with 99.98% availability to perform user authentication and authorization on a gRPC OPA policy registry.
- Prototyped and implemented a thread-safe gRPC database service with 1.42ms query latency and 714+ operations per second in boltDB as a StatefulSet on k9s and Kong Ingress.

ML Research Assistant | Paul G. Allen School:

Mar 2022 – Current

- Designed and prototyped a custom ring that performs a 99.6% accuracy on user identification, 87.76-100% on one-handed gestures, and 86.27-96.36% on two-handed gestures.
- Implemented object detection at 81.26-99.36% accuracy with a Convolutional Neural Network.
- Created and optimized Z-Ring's finger detection on 1D slider to an average MAE of 2.91cm and on 2D slider to an average euclidean MAE of 3.24cm with Random Forest Regression.

Student Ambassador | Microsoft:

Apr 2021 – Jun 2022

- Lead college events with 15+ students to instruct on Computer Science, Machine Learning, and Microsoft Azure usage. Achieved the Alpha Milestone with 1 Trophy and 5 Badges.

Tech Club President | Bellevue College:

May 2020 – Jun 2021

- Founded a club that provides free tutoring, mentoring, and project support to 150+ STEM students.
- Lead a team of 6 students and structured a Tax Calculator GUI project with swingX.
- Managed 3 teams of 18 students on a GUI game bot to exceed an AI win rate by 34% with Minimax.

PROJECTS

GroupChat (React.js, Firebase, NoSQL, Node.js, Docker, CI/CD)

- GroupChat enables real-time chatting across a common group chat using a Firebase NoSQL database and Google Authentication on a React.js front-end and implementing CD with GitHub Actions.

Azure Parking Server (JavaScript, Node.js, Azure, IOT, Blob, Cybersecurity, API)

- This server guides clients to an empty parking spot in a big parking area given IOT sensors connected to an Azure blob storage on Azure IOT central.

Technologies and Languages

- Go, Java, JavaScript, Python, HTML/CSS, Bash, C, SQL
- Git, Docker, Kubernetes, NoSQL, GCP, Azure, Firebase
- gRPC, React, Bootstrap, Node.js, REST