Robert Herley IV

Software Engineer · Full Stack Developer

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Education

2015 – 2019   **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.

Major GPA – 3.95, Overall GPA – 3.83
- Dean's List: 2016 - 2019
- TA for CS546 Web Programming and CS554 Advanced Web Programming
- Member of Upsilon Pi Epsilon: International Honor Society for the Computing and Information Disciplines

Experience

June 2017 – Current   **Software Engineer**, *IBM*, Armonk, NY.
- Developed various microservices (Java, Go, Node.js) for provisioning internal Kubernetes clusters and other IBM Cloud offerings.
- Created a user-facing portal implemented with React/Redux (front-end) and Express/Node.js (back-end) in a containerized deployment.
- Utilized various databases including PostgreSQL, MongoDB and Redis for persistant and ephermal storage.
- Practiced Agile methodology with daily scrums and iteration planning with Jira.

Jan 2017 – June 2017   **Software Engineer**, *OnSight Digital Solutions*, Hoboken, NJ.
- Developed an online service that organizes transaction information from internal APIs to an end-user, utilizing various forms of data vizualization.
- Implemented technologies front-end technologies: Bootstrap, D3.js and LESS.
- Undertow Java back-end deployed in AWS, managed mySQL database in DataGrip.

Projects

Academic   **Tyr, Senior Design Project**.
- Platform that helps educators assess student assignments in a scalable, fault tolerant, and uniform testing environment, with a user-friendly web dashboar.
- Tyr manages a collection of microservices to create identical and ephemeral testing environments via a self-hosted Kubernetes cluster.

Academic   **Yet Another Messaging Service**.
- Slack-like clone written in Typescript and React, and Electron for the client.
- Socket.io was used for message communications, and MongoDB for persistant storage.

Hackathon   **Scramble**.
- Express.js server pairs clients into Socket.io Rooms and starts random fast-paced multiplayer mini-games for the browser between the two clients.
- HackBU Winner - Best Design

Skills

Languages   JavaScript/TypeScript, C/C++, Python, Java, Bash, SQL, Go

Web & Cloud   HTML5, CSS/Sass, React/Redux, MongoDB, Docker, Kubernetes, Electron

Misc. Tech   Git, Linux, Redis, Travis CI, Trello, ZenHub, LaTeX