

# 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, Member of Upsilon Pi Epsilon: International Honor Society for the Computing and Information Disciplines
  - TA for CS546 Web Programming and CS554 Advanced Web Programming

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## Experience

- June 2017 – Current **Software Engineer**, *IBM*, Armonk, NY.
- Worked on integral components of an internal PaaS, powered by OpenShift that currently serves over nine thousand, highly available deployed applications.
  - Created multiple Kubernetes-native components (operators, controllers, webhooks) and microservices (Golang) to assist in the orchestration of user workloads.
  - Designed and developed single-page web console (React/NodeJS) to interact with OpenShift resources across a dozen clusters, interfacing with various microservices, databases and message queues.
- 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 visualization.
  - Front-end technologies: Bootstrap, D3.js and LESS, Java back-end deployed in AWS, and managed MySQL database.

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## Projects

- Academic **Tyr, Senior Design Project.**
- Platform that helps educators assess student assignments to create identical and ephemeral testing environments via a self-hosted Kubernetes cluster.
  - React single page app front-end, back-end microservices written in Go, Redis for cache and MongoDB for persistent 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
- Contract **Hudson Space Systems, Website.**
- Designed in Sketch, developed front-end using React and Gatsby, CI/CD via GitHub Actions.

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## Skills

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|-----------------------|---|
| <b>Languages</b>      | JavaScript/TypeScript, Go, Python, Java, C/C++, Bash  |
| <b>Web &amp; DB</b>   | HTML5, CSS/Sass, React/Redux, SQL (Postgres), MongoDB, Redis, RabbitMQ                              |
| <b>Cloud</b>          | Kubernetes, OpenShift, Docker, IBM Cloud, AWS, Digital Ocean, Cloudflare                            |
| <b>Misc. Software</b> | Git, Linux, Argo CI/CD, Travis CI, Jenkins, Trello, Sketch, ZenHub, L <sup>A</sup> T <sub>E</sub> X |