

# YUKI DE POURBAIX

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## Education

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### Brown University

*Master of Science in Computer Science*

*GPA: 4.00/4.00*

**Aug. 2021 – May 2023**

*Providence, RI*

### Yale University

*Bachelor of Science in Computer Science*

*GPA: 3.68/4.00*

**Aug. 2016 – May 2020**

*New Haven, CT*

## Experience

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### Virtual Peaker

*Research & Development Engineer*

**Sep. 2022 – Present**

*Louisville, KY*

- Self-service energy management platform that enables utility companies to forecast energy usage, optimise distributed energy resources and facilitate customer engagement.
- Simulating houses and devices to enable and test virtual power plant facilities in sandboxed and accelerated environments.

### Zenbu Ltd.

*Co-Founder and Developer*

**Aug. 2020 – Aug. 2022**

*London, UK*

- Co-founded a full stack web design and development company, serving nonprofit, start-up and corporate clients.
- Established Google cloud integrations with Salesforce and Constant Contact CRMs, leveraging OAuth 2.0 for security.
- Built and maintained a server cluster with remote access control, dual stack networking and load-balancing.

### Laconia Venture Cooperative

*Venture Fellow*

**May. 2021 – Nov. 2021**

*Remote*

- Learned early-stage investing through a 6-month educational program hosted by Laconia.
- Participated in Laconia's investment processes, collaborated on due diligence, heard perspectives from industry leaders, shared expertise within the community, and collaborated with early-stage founders.

### Yale Computer Science Department

*Undergraduate Learning Assistant*

**Jan. 2017 – May. 2020**

*New Haven, CT*

- Led two-hour teaching sessions twice a week in a flipped classroom format to lecture on programming basics, from primitives to class inheritance in Java.

### Computer Systems Lab (Yale) & Peng Cheng Laboratory

*Undergraduate Researcher for Research Project (Carbide)*

**Jan. 2019 – May. 2020**

*New Haven, CT & Shenzhen, China*

- Deployed Carbide – a system that allows the use of multiple control planes on a software defined network – on seven switches with a team of five at the Peng Cheng Laboratory in Shenzhen.
- Improved reliability and compatibility of Carbide's implementation within Microsoft's SONiC architecture in conjunction with representatives from Yale, PCL, Microsoft and H3C.

### Distributed Analytics and Information Science

#### International Technology Alliance

*Student Collaborator at Yale University and University College London*

**May. 2017 – Aug. 2020**

*New Haven, CT & London, UK*

- Presented joint research with IBM to members of the UK Ministry of Defence and US Army Research Laboratory in London and New York as part of the task force focused on Software Defined Networking.

## Projects

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### Secure Multiparty Document Sharing | Python

**Jan. 2023 – May 2023**

- Designed, built and analysed the security of a multi-party document storage and sharing system modelled on Dropbox.

### Weenix OS | C

**Jan. 2022 – May 2022**

- Built a basic Operating System for single-core machines consisting of multiple single-process threads, device drivers, a rendition of S5FS (the original UNIX file system) and virtual memory management.

## Technical Skills

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**Languages:** JavaScript, Python, Java, C, C++, C#, HTML/CSS, SQL, Rust

**Technologies/Frameworks:** Node.js, Flask, Linux, GitHub, Google Cloud, SolidWorks