

# BEN HARVEY

## SOFTWARE ENGINEER

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## PROFESSIONAL EXPERIENCE

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FALL 2019 – PRESENT

### Co-founder, Software Engineer, RedPoint Notebooks, Portland, ME

- Created and deployed a web-native computational notebook with multi-language support
- Implemented a back end Node.js server to execute JavaScript, Ruby and Python code
- Wrote a reverse proxy server from scratch to forward HTTP and WebSocket traffic
- Buffered incoming webhook traffic with a Redis message queue
- Strengthened application security by implementing container isolation with a secure runtime
- Persisted notebook and webhook data with MongoDB
- Secured host system from malicious users using Google's gVisor secure container runtime
- Implemented Linux control groups to prevent resource monopolization
- Engineered a responsive front end in React.js
- Authored a detailed [case study](#) describing the engineering of RedPoint

FALL 2017 – FALL 2019

### Full-stack Web Developer, Self-Employed, Asheville, NC

Built an extensive number of personal and open source web applications including:

- RedPoint Dispatch Server: a reverse proxy server built with Node.js and Docker API
- Reaction: a project management app with React/Redux front end, Rails back end
- Grindstone: a personal task management app built with Sinatra, PostgreSQL, and Handlebars.js
- Airline Routes: a React application bootstrapped with Create React App that allows users to view and filter airline routes on a clickable SVG map
- Postit!: A Reddit-like application built with Ruby on Rails and PostgreSQL

SPRING 2010 – WINTER 2017

### Owner, Mayapple Bakery, Asheville, NC

- Founded and operated a bakery focused on specialty pastries. Sold in 2018

## EDUCATION

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### Launch School FALL 2017 – FALL 2019

[Mastery-based](#) software engineering program

### Brown University FALL 1995 – SPRING 1999

B.A. in East Asian Studies

## SKILLS

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**Back-End:** Node.js, Express, Ruby, Rails, Sinatra, Redis, MongoDB, PostgreSQL, RESTful APIs

**Front-End:** JavaScript ES6, React.js/Redux, HTML/CSS

**Other:** Git, Agile, Linux, Docker, WebSockets

