BEN HARVEY
SOFTWARE ENGINEER

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PROFESSIONAL EXPERIENCE

FALL 2019 – PRESENT

Co-founder, Software Engineer, RedPoint Notebooks, Remote
- 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
- 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 (https://redpoint-notebooks.github.io/)

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 route-finding React application bootstrapped with Create React App
- Postit!: A Reddit-like application built with Ruby on Rails and PostgreSQL

SPRING 2010 – WINTER 2017

Owner, Mayapple Bakery, Asheville, NC
- Founded, operated and sold a bakery focused on specialty pastries.

EDUCATION

Launch School FALL 2017 – FALL 2019
Rigorous program building strong fundamentals in software engineering using a mastery-based learning pedagogy   https://launchschool.com/employers

Brown University FALL 1995 – SPRING 1999
B.A. in East Asian Studies

SKILLS

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