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Boston, MA

# Ian McGahren

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## Technical Skills and Languages_____

**Languages/Frameworks:** React.js, AngularJS, Next.js, Node.js/NPM, Express, JQuery, Typescript, Python, PHP, MySQL, PostgreSQL, MongoDD/Mongoose/js, Jest/Enzyme, Mocha/Chai, Cypress, Babel, Puppeteer, Selenium, HTML5/CSS/JS

**Tools/Services:** VSCode, Linux (Ubuntu, Arch, Redhat, Mint), Docker, AWS (EC2, Route53, ACM, S3, Cloudfront, ELD, RDS), Git, Github, Azure, Postman, CircleCI, Trello

## Experience _____

**Fintology** | Principal  Software Engineer | **Philadelphia, PA**                                             2022 - 2023
- Led development of a B2B and B2C credit acquisition web application in a fast-based startup environment
- Managed an international team of engineers via **Slack**, **Trello** and **Zoom** utilizing **AGILE** scrum methodologies
- Finalized a scalable front-end built with **Docker**, **PHP**, **Twig**, and **JS**, and deployed using **DigitalOcean** and **AWS**
- Oversaw creation of a **Python/Selenium** bot capable of securing over $150,000 in loan capital per customer
- Composed all technical documentation, including patch notes, compliance documents and security protocols
- Implemented multi-domain **SSL/TLS** and end-to-end database encryption utilizing **AES-256** and **SAN SSLs**

**PayByCar** | Software Engineer | **Boston, MA**                                                                      2022
- Wrote and implemented **bash** scripts for on-site logging of all scans transactions
- Performed device and network analysis on LTE-enabled **MOXA**s to identify and eliminate bottlenecks
- Administered daily service checks, compiled results and distributed health reports to company leaders
- Monitored and rectified service interruptions and disconnects to maintain 100% service uptime

**Purple Peace, LLC** | Project Manager & Lead Agronomist | **Ridgeway, PA**                       2018 - 2019
- Designed and built greenhouse for generating over $15k per harvest
- Programmed and installed automated lighting & watering systems using **Arduino** and **Python**
- Marketed and pitched to potential investors, resulting in a $45k investment from local business owners

**Warwick Mushroom Farm** | Mushroom Horticulturalist | **Warwick, MD**                         2017-2018
- Automated and tuned water, $CO_2$ and HVAC systems to ensure optimal growing conditions
- Provided onsite tech maintenance to farms power, AC, light, water and computer systems

## Projects_____

**Pantry Chef** |  | Software Engineer | https://github.com/hack-curtains/project-gordon-web
*System-design/implementation for server/database using **React.js**, **PostgreSQL**/**MongoDB**, **Docker**, **Express/Node**, **Pino** and **Crypto***
- Reduced query latency by 10x using A/B testing to evaluate **MongoDB** and **PostgreSQL** databases
- Identified system bottlenecks with **Pino**/**Postman** to increase throughput and reduce error rate (<1%)
- Deployed and horizontally scaled microservice across multiple **AWS EC2** instances with **Docker** to handle 500/rps
- Developed robust resources for testing, logging and documentation using **Pino**, **Marked** and **Supertest**
- Implemented authentication with cookies, session ID's and a hashed/salted **PostgreSQL** database

**Ecommerce Website** | Software Engineer | https://github.com/HackReactor-Team-Apollo/hr-clutch-FEC
*Front-end design case study delivering a high performance consumer website using **React.js**, **Mocha**, **Webpack**, **Node.js***
- Collaborated with an agile team of four engineers to create a performant and maintainable marketing site
- Engineered solutions to deployment, documentation, and testing using **Webpack**, **Marked** and **Mocha.js**
- Architected infrastructure for code and content management systems with **Git** and **Heroku**

**Automated and Self Actuated Operating Light** | Project Manager/ Robotics Engineer | Jefferson University
*Designed, built and programmed automated light using **Microsoft Kinect**, **Arduino**, **Python** and **Kinect SDK***
- Managed a team of mechanical and software engineers to create a performant prototype
- Programmed **Kinect SDK** to gather and analyze real-time position data of operating theater staff
- Analyzed data with **Python** and an **Aruduino** to automate light's actuation based on surgeons position

## Education _____

**Hack Reactor**                                                                                                        **San Francisco, CA**
Advanced Software Engineering Immersive                                                          2021 - 2022
**Drexel University**                                                                                                **Philadelphia**, **PA**
College of Engineering | 3 Years towards B.S. in Environmental Engineering                    2013 - 2017