**Melodie Peck**

Full-Stack Software Engineer | Buckhannon, West Virginia | (901) 283-8809 | peckmelodie@gmail.com

[melodiepeck.com](http://melodiepeck.com) | [linkedin.com/in/melodie-peck/](http://linkedin.com/in/melodie-peck/) | [github.com/peckmc](http://github.com/peckmc)

**TECHNICAL SKILLS**

**Front-End** | Python, Javascript, Typescript, React, jQuery, HTML, CSS, Google Apps Script, Bootstrap, Figma

**Back-End** | Node.js, Express, Ajax, PostgreSQL, MongoDB, MySQL, REST APIs

**Testing/Deployment** | Jest, Mocha, Chai, AWS: EC2, NGINX, Stress Testing, Netlify

**Developer Tools** | VSCode, WSL, Regex, Vim, Git, npm, Webpack, Babel, Agile Methodology

**SOFTWARE APPLICATION DEVELOPMENT EXPERIENCE**

**Image-to-Text OCR Generator**| Full-Stack Engineer| [*github.com/peckmc/interface-helper*](http://github.com/peckmc/interface-helper) 2022-2024

*Node.js | Google Drive/Docs/Sheets API | Google OAuth 2.0 | Javascript | HTML | CSS*

*Web app to extract text from images and export to spreadsheet*

* Achieved highly intuitive, user-friendly front end with **React** and fast**,** reliable back end service with **Express.js.**
* Facilitated efficient and accurate extraction of text from images with **Google Cloud Vision OCR.**
* Utilized **Google OAuth 2.0** to allow seamless user authentication and spreadsheet export to Google accounts.
* Optimized complex asynchronous **Node.js** processes to an average of <2 seconds per image.

**ShelfShare** | Full-Stack Engineer|[*github.com/rpp2209-boc-basementeels*](http://github.com/rpp2209-boc-basementeels) 2023

*React | Bootstrap | PostgreSQL| Javascript | Node.js | Express | Jest*

*Crowd-sourced book borrowing platform*

* Developed **REST API** endpoints to save and retrieve book information stored in a **PostgreSQL** database.
* Implemented barcode scanning feature for phone cameras and webcams.
* Collaborated with a team to create cohesive front-end design with **React-Bootstrap**.
* Achieved over 70% coverage and ensured high-quality code with **React Testing Library** and **Jest**.

**Atelier** | Back End Engineer| [*github.com/rpp2209-sdc-berkelium*](https://github.com/rpp2209-sdc-berkelium/qa) 2023

*Javascript | Node.js | Express | Jest | PostgreSQL | MongoDB | EC2 | k6 | loader.io | NGINX*

*Back-end microservice for an e-commerce web app*

* Initiated three-step **ETL** process using **PostgreSQL** to import inherited legacy product data.
* Increased back end throughput from **from 200 RPS to 650 RPS**, or **225%** with database optimization after building and deploying back end architecture.
* Achieved average latency of **< 50ms** and error rate of **< 1%** by scaling service layers with **NGINX** load balancer and multiple **AWS EC2** instances.
* Decreased stress testing cycle length by identifying and resolving system bottlenecks using **Loader.io, New Relic** and **k6**.

**PROFESSIONAL EXPERIENCE**

**Historic Images, Inc.** | Remote Data Entry Specialist | [historicimages.com](https://historicimages.com/)

*Data Entry | Software engineering | Creative writing | Digital archiving*2010-2024

* Populated database with over 400k+entries by labeling, summarizing, and categorizing historical newspaper articles.
* Improved overall workflow efficiency by over **6x** by devising **ETL** software process for text extraction and digitization of photo archives using **wget** and **Javascript**.
* Slashed manual human input by 90% by implementing **OCR** and text formatting software solutions using **Google Apps Script**, **Autohotkey** and **Regex.**

**EDUCATION**

**Hack Reactor** | Advanced Software Engineering Immersive Program 2022 - 2023

* Full-stack program with 600+ hours ofprogramming in **JavaScript, React, Express, SQL,** and more in an **Agile** environment

**University of Memphis** | Computer Science Major 2010 - 2012