

# John Poku

Software Developer

778.238.1756 | jvpoku@gmail.com | <https://johnpoku.com/> | <https://github.com/DarkRagingInferno>

## EXPERIENCE

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### ImSimPy

#### Medical Imaging Simulator Contract | Full-Stack | Proprietary App

- Developed a medical image simulator, designed to resemble medical tools, used for training and educational purposes
- Implemented 3D Voxel-based graphics and image processing techniques using tools such as Python, SciPy, numpy, tKinter, and ttk
- Translated MATLAB code base to be efficient, scaleable, optimized, and follow Object-Oriented Programming methodologies in Python
- Designed and configured a full front-end GUI in Python using tKinter and ttk libraries
- Collaborated in a team to follow agile development methodologies with MVP and deliverables

### Allergy App

#### Allergy Grocery App| React | Full-Stack | Relational Database | REST API

- Designed and built a mobile app with Javascript on React-native platform for Android and iOS to inform users whether or not it contains a specific allergen
- Created and configured MySQL relational database setup using Amazon Web Services (AWS)
- Implemented and optimized stored procedures and functions in MySQL to be called by Express.js back-end endpoints
- Created a 19-endpoint REST API to communicate with stored functions and procedures in a MySQL relational database

### Pokemon API

#### RESTful API Service | Back-End | Relational Database | AWS

- <https://johnpoku.com/pokeAPI/index.html>

- Created and configured a MySQL relational database setup using Amazon Web Services (AWS)
- Implemented and optimized 13 stored procedures and functions in MySQL to be called by Express.js back-end endpoints
- Built 15-endpoint REST API in JavaScript using Express to communicate with database MySQL stored procedures

## SKILLS

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### Software Development

JavaScript, Python, C#, Java, .NET Core

### Web/Mobile

Swift, React, HTML, CSS, Node.js, Express.js, REST API

### Development Tools

Git, Agile

### Database

MySQL, SQL, SQLite

### Cloud Services

AWS, Azure, Heroku

## EDUCATION

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2018 - 2020

### Computer Systems Technology | Diploma | Web and Mobile Option

*British Columbia Institute of Technology - Burnaby, BC*

2015 - 2018

### Kinesiology & Health Sciences Stream | Bachelor of Kinesiology

*University of British Columbia - Vancouver, BC*