

# Michael Tang

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Self-motivated full-stack engineer with over three years of professional experience in various technological environments.

## Work experience

### NeuralRad LLC - Software Engineer

April 2024 - Current

#### Medical Application Development

- Refined lesion tracking module, enhancing user experience when comparing ranges of interest over time.
- Engineered semi-automatic 3D image segmentation feature for the NeuralRad platform, leveraging Python and JavaScript for backend processing with Vista3D and Rust for frontend interaction; enables users to perform AI-assisted segmentation of DICOM volumes with intuitive point-and-box-based guidance.
- Developed an interactive beam simulation module for radiotherapy planning within NeuralRad, enabling medical physicists to visualize, edit, and analyze treatment beams in 2D and 3D views, mimicking real-world clinical applications.

#### Database Development and Management

- Developed a Python and MongoDB-based service for advanced patient data management, featuring a custom wrapper for dynamic document updates and flexible ingestion from JSON, XML, & spreadsheets.
- Architected a task-driven automation framework utilizing MongoDB for data storage and query execution, with a Flask API for dynamic, configuration-driven data retrieval and task initiation.

#### PDF Generator

- Developed an XML-configurable CLI service for automated, multi-stage PDF report generation by aggregating data from various files, databases, and APIs to create styled reports with text, images, tables, graphs, embedded PDFs.

### PRO Fence Naperville - Software Engineer (Consultant)

June 2023 - May 2024

#### Web and Mobile Application Development

- Solo developed scalable, responsive cross-platform web and mobile applications for fencing using React.js and React Native, enabling the creation of instantly downloadable, automatically generated digital PDF estimates.
- Achieved an 80% reduction in estimation creation time, 60% less customer onboarding time, and 40% increased data management efficiency.

#### Backend and Database Management

- Implemented a robust SQL database to securely and efficiently store customer data, sketches, pricing, and generated estimates, utilizing a RESTFUL API using ASP.NET Core in C# for database retrieval, deploying both on an AWS EC2 instance, ensuring maximum uptime and accessibility.

### Citcon USA LLC (Santa Clara) - Web Developer Intern

December 2021 - December 2022

- Developed a Python script to automate the insertion, extraction, and sorting of user data from the employee directory (Okta) to a readable spreadsheet, reducing unnecessary license costs by 8%.

## Education

### University of Wisconsin - Madison

Bachelor of Science: Computer Science

## Skills

**Certifications:** AWS Developer - Associate, React, C#, Python

**Programming Languages:** Python, Rust, JavaScript, C#, Java

**Technical Skills:** HTML, CSS, Node.js, React.js, React Native, ASP.NET, Express.js, Git, AWS

**Databases:** MongoDB, MySQL, Microsoft SQL Server

**Operating Systems:** Microsoft Windows, Linux, Unix

**Other:** Authorized to work for any US employer (US citizen by birth)