Scott Kerns

Lead Developer and Software Architect

s@scottk.net   908.963.9147   scottk.net

Architect and Developer – NXTCLB in Somerville, NJ

2018 – Present
- Design and develop collaboration/discussion SaaS SPA with end-to-end encryption
- Implementation uses RSA and AES algorithms so content and encryption keys are only encrypted/decrypted in the browser and never appear unencrypted on servers
- Users can have multiple profiles controlling how they appear in each channel
- User profiles are stored encrypted or SHA hashed on servers to protect user data
- Encrypted content and keys stored in separate database engines

Laravel	PHP/JS	MySQL/Postgres	Ubuntu	Echo/Soketi
OpenSSL	SubtleCrypto	Vue/ES5/ES6	SASS/Foundation	Vite
Git	Vagrant/Virtualbox	PHPUnit	Redis	TypeScript

Lead Developer – Consultant for Dreamline in Warminster, PA

April 2023 – June 2023
- Develop module to integrate with FedEx REST API using Laravel and Guzzle
- Identify root cause of server, network, and account problems and then as needed work with 3rd parties – such as hosting companies – to resolve them
- Debug and fix code in complex custom Laravel web application
- Investigate logs and MSSQL databases when sales order records not processed

Laravel	PHP	MSSQL	T-SQL	Ubuntu
Git	XAMPP/Apache	OAuth	REST	Wireshark

Lead Developer – JK Design in Hillsborough, NJ

2008 – 2018
- Architect/developer custom CMS, one based on CodeIgniter, the next based on Laravel
- Full stack implementation of many custom sites using multiple in-house PHP CMSes
- Integrate with 3rd party REST and SOAP APIs like Eventbrite and SalesForce
- Technical lead for server, networking, and application problems
- Resource for up to 9 other developers, e.g., rewriting a complex query in a Laravel application taking over 20 minutes and timing out to less than 20 seconds
- Merge Pull Requests from other developers into code base
- Write and run unit and functional tests and perform manual tests
- Work closely with account and project managers on RFPs and estimates

Laravel	CodeIgniter	PHP5/PHP7	MySQL	Linux/Unix/BSD
JavaScript/jQuery	Apache/Nginx/IIS	DNS	Photoshop	OSX
VBA	Git	PHPUnit	CSS/SASS/Bootstrap	Angular

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President and Developer – Kerns Research Institute in New Berlinville, PA

2002 – 2008
- Support and extend two custom LIMS (Laboratory Information Management System)
- Implement and expand import of analytical results (e.g., HP Chemstation) to reduce data entry problems and reduce data entry time from hours to minutes per day
- IT administration duties, including routine backups, emergency restores, server rebuilds, network setup, maintenance, and expansion, and catalog equipment and software
- Design and implement photo printing kiosk UI/UX that had interest by Mitsubishi

Windows server	Visual Basic	MySQL	IIS/Apache	LIMS
ODBC	PHP	MSSQL	Postgres	HP Macros
Windows scripts	Unix/Linux/BSD	VBA	Photoshop	Illustrator

IT Administrator – Blue Marsh Laboratories in Douglasville, PA

2001 – 2002
- Develop data importers for organics departments and train analysts in its proper use
- Standard IT duties in a mixed Windows environment for around 30 users in two locations
- Generate EPA and DEP regulatory compliance reports

Visual Basic	Windows TCP/IP	MS Access	HP Chemstation	VBA

Supervisor VOC Dept. – Blue Marsh Laboratories in Douglasville, PA

1998 – 2001
- Develop data importer to integrate HP analytical software with lab's Access-based LIMS
- Supervise 3 other analysts, maintain equipment, install/configure analytical software

Visual Basic	MS Access	HP Chemstation	HP EnviroForms	VBA

Technician and Analyst – Johnston Laboratories in New Cumberland, PA

1997 – 1998

B.S. Biology – Penn State University at University Park, PA   *1997*

Additional Technical Skills

LAMP/LEMP	ES5/ES6	Webpack	OOP	MVC
JSON	HTML/XML/XHTML	CSS3/SCSS/LESS	AJAX	jQuery
Angular	NodeJS/NPM/Yarn	ssh	SSL/TLS	Gulp
Cloud servers	Composer	Bash scripts	Bitbucket/GitHub	ActiveRecord/ORM