

**Garrett Kegel**  
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Portfolio

Bachelor's degree level professional with experience in multiple programming languages including HTML5, CSS3 (Less, Sass, Bootstrap), JavaScript, Python, C, C++, SQL, MATLAB, and R.

### **Skills and Qualifications**

- Oracle Apex database administration and design using entity-relationship diagrams (Chen or Crow's Foot Notation)
- MVC stack design and implementation using MySQL, handlebars.js, and express.js.
- MERN stack design and implementation using a NoSQL database with MongoDB, express.js, node.js along with React.js as the front-end
- Extensive logical reasoning abilities with a strong understanding of Boolean logical structures
- Communication to end-users and customers about how technology works
- Ability to calculate and forecast trends in datasets
- Extensive quantitative ability: Real Analysis, Complex Analysis, Linear Algebra, Optimization, Numerical Analysis, Floating-point Arithmetic, Polynomial Interpolation, Singular Value Decomposition, Householder Triangularization, Gram-Schmidt Matrix Decomposition, Simplex Method Optimization, Quadratic Programming Optimization, Multi-Variate Regression

### **Computer Skills**

- Data retrieval using third-party RESTful APIs
- Web development best practices
- Microsoft PowerApps with an emphasis on PowerAutomate
- MERN stack
- MVC stack
- Database creation, maintenance, and administration using both SQL and NoSQL
- Oracle APEX database administration
- Touch type 66/words per minute
- Microsoft Office Suite (Word, Excel, Outlook, PowerPoint, OneNote)
- Visual Studio Code
- Version control systems (Git, GitHub)
- MATLAB algorithm design
- RStudio analysis of large datasets
- A+ Certification
- Content Management System (WordPress)

### **Education History**

**Franklin University**

**Master of Science in Data Analytics – In Progress**

**University of California, Davis**

**Bachelor of Science in Mathematical Analytics and Operations Research with a Minor in Economics**

**University of California, Davis Continuing and Professional Education**

**Full-stack Developer Certification**

**American River College**

**Associate of Science in Mathematics**

**Associate of Science in Physical Science and Mathematics**

**Associate of Arts in Accounting**

**Sacramento City College**

**Associate of Science in Computer Science – In Progress**

### **Military History**

**United States Air Force**

**Remotely Piloted Sensor Operator**

- Served as co-pilot and assisted pilot with navigational functions
- Operated camera on aircraft and performed ground scans using techniques such as a raster scan
- Communicated findings to multiple third-party customers

### **Employment History**

**Martingale Stochastic Process LLC**

**Freelance Software Developer**

- Designed websites using MERN stacks and MVC stacks
- Designed websites using content management systems (WordPress)
- Created and maintained SQL and NoSQL databases
- Developed in-house, proprietary financial technology

**Department of Social Services**

**Staff Services Management Auditor**

- Performed policy analysis for audit
- Analyzed general ledgers of non-profit organizations

**Frank, Rimerman + Co. LLP**

**Tax Assistant**

- Performed accounts payable duties using Bill.com
- Performed bank account reconciliations using Sage Intacct and QuickBooks Online
- Generated accounts payable reports for management
- Implemented Outlook rules to automate email inboxes