

# Kenneth Allen

Full-stack software developer  
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I am a full-stack software developer with 6+ years experience creating and using software to meet business needs. I am always interested in opportunities to develop my skills and career. I am friendly, conscientious, and responsible in the office and out. I have worked as both software vendor and client, which gives me a holistic perspective on the process of integrating new software into a business. Please feel free to contact me for more information or to set up a meeting.

I immigrated from America a few years ago to be with my long-distance Australian partner. We live in the St. Kilda area of Melbourne and my favorite thing about the city is being able to get almost anywhere without needing a car. My main interests are technology, videogames, board games, and science fiction. I like to spend my free time hacking on personal coding projects, cooking, reading, and trying to convince people to play four-hour European economic board games.

## 2019 – Present: *Development Lead at OnQ Software*

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OnQ Software is a small developer of laboratory management software in Melbourne, VIC, Australia.

- **I develop web applications in a closely collaborative environment.**
  - I am instrumental in the project to build the next version of our flagship product from scratch with modern technologies (Angular frontend, open REST API, Elasticsearch search acceleration).
  - I lead the development of the AWS cloud infrastructure and DevOps workflow for the new version.
  - I maintain our legacy ASP.NET product with bugfixes and performance improvements.
- **I implement new client systems.**
  - I gather information from clients' management and end users and then document formal requirements.
  - I design numerous complex custom reports (medical test results, legal documents, internal worksheets).
  - I develop customized features and integrations for client workflows (reading data from scientific instruments, billing Australian Medicare, tracking biobank inventory).
- **I administrate and support live client systems.**
  - I am in daily contact with users, fixing issues and fulfilling new features and change requests.
  - I am entrusted to be the sole support technician on duty during business and off-hours.

## 2015 – 2018: *Integrations Developer at Savannah's Candy Kitchen*

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Savannah's Candy Kitchen is a mid-size manufacturer and retailer of candy and baked goods in Savannah, GA, USA.

- **I was solely responsible for all in-house development and integration.**
  - I developed custom integrations and internal tools (linked order/inventory systems, linked ecommerce site/3rd party marketing systems, automated time-consuming data entry tasks).
  - I worked to transition website, warehouse, and stores away from legacy software. Where not possible, I maintained and extended legacy systems working with vendors and consultants.
- I provided local and remote IT support, analyzed sales data, trained store managers, conducted candidate interviews, audited billings, and performed physical warehouse labor as needed.

## Technologies

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**Web:** HTML, JavaScript/DOM, CSS, HTTP, TCP/IP, TLS and PKI, DNS, OSI model, routing, WebSockets, CDNs

**Server:** Linux (Ubuntu, CentOS), Windows Server, Nginx, IIS, Apache, Docker

**Cloud:** VMs (AWS EC2), object storage (AWS S3), serverless containers/functions (AWS Fargate/Lambda), OAuth 2.0

**Coding:** JavaScript/TypeScript (Node, React, Angular), C#, Python, Java, C/C++, Rust, PHP, Visual Studio Code

**Data:** SQL databases (PostgreSQL, MS SQL Server, MySQL), Elasticsearch, Microsoft Excel, report templates

**Collaboration:** Git (Sourcetree, GitHub), Subversion, Jira, Confluence, wikis, support ticketing

**Office:** Microsoft Office, Google Docs/G Suite, Photoshop/GIMP

**Hardware:** troubleshooting, installing, upgrading, networking

## Qualifications

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Certified AWS Solutions Architect Associate (2021 – AWS CloudU trained and certified)

Bachelor of Computer Science (2017)

- **Studied** 2008 – 2010 at Georgia Institute of Technology (Atlanta, GA, USA).
- **Completed** 2016 – 2017 at Armstrong State University (Savannah, GA, USA), now part of Georgia Southern University.
- **Co-author**, "Private Matching and Set Intersection Computation in Multi-agent and Industrial Control Systems" with A. Rasheed, R. Mahapatra, D. Puthal. **Presented** the research at the Cyber and Information Security Research Conference, 5 April 2017, Oak Ridge National Laboratory.

High School Graduate (2008 – Savannah Arts Academy, Savannah, GA, USA)