# Hugh Edward Hockett

1198 Joslyn Ridge Ct, Apex, NC 27502; (919) 389-1968; hhockett@gmail.com

Summary: Highly motivated software architect specializing in innovative cloud, networking, and automation solutions.

Professional Work Experience:

**IBM,** Research Triangle Park, NC

***IBM Cloud Pak System*** - Senior Technical Staff Member and Master Inventor *2019 to Present*

- Lead software architect for IBM Cloud Pak System, an on-prem hybrid cloud solution for VMs and containers.
- Drive software development of 10+ engineering squads focused on features including hybrid cloud integration, high availability, disaster recovery, multi-system management, install, upgrade, security, RAS, DevOps, QA and more.
- Developed a first-class experience for deploying multiple OpenShift clusters and containerized software by integrating Ansible, DHCP, DNS, NFS, HAProxy, Keepalived and a Docker registry as supporting services.
- Serve as a lab advocate for multiple Fortune 500 clients providing architectural guidance and support.

***IBM Cloud Automation Manager*** – Senior Software Engineer *2016 to 2019*

- Lead a team of 30+ developers to release the GA version of a hybrid cloud management platform that accelerates application and multi-cloud infrastructure deployment using infrastructure as code with an optimized user interface.
- Designed and developed a highly scalable SaaS offering on IBM Cloud based on Terraform, Kubernetes, Helm, Docker, Angular, Node.js, LoopBack, MongoDB and more, and then adapted it to an on-prem Kubernetes offering.

***IBM PureApplication System*** – Senior Software Engineer *2010 to 2016*

- Software architect and development lead for the expert integrated cloud appliance for application orchestration.
- Served as a release architect for a team of 200+ engineers ensuring we shipped high quality and on time releases.
- Designed a multi-site disaster recovery solution for multiple IBM PureApplication Systems that uses database replication and global mirroring of storage volumes across datacenters.
- Developed a patented multi-system high availability cloud solution that uses a clustered file system (GPFS) and workload patterns that can be intelligently deployed across multiple systems. Received an IBM Corporate Award.

***IBM Enterprise Networking Solutions for System z*** – Advisory Software Engineer *2003 to 2010*

- Served as a Chief Programmer for z/OS Communications Server, an enterprise TCP/IP networking stack.
- Architected, developed, and tested several TCP/IP related features and performance optimizations including TCP offload, L3 VMAC, SNMP, Network Traffic Analyzer, and the Communication Controller for Linux.
- Owned a 700,000 LOC network simulator that enables developers to test without hardware dependencies.
- Participated on two Enterprise System Architecture Boards focusing on future z/Series strategies and technology.

***Patents & More***

- Named an IBM Master Inventor for contributions to IBM's intellectual property and promoting innovation.
- Granted 57 US patents to date with 14 applications pending and 28 defensive publications.
- Serve on the IBM Software Group networking patent board helping review networking related patent applications.
- Presented at numerous conferences: Think, InterConnect, IBM Research, IBM Technical Leadership, SHARE…
- Awards: IBM corporate, multiple outstanding technical achievements, client relationships, RockIT, Bravo…

Pre-Professional Work Experience:

**Microsoft,** Redmond, WA *Summer 2002*
***Program Manager Intern*** – Architected new networking features for Server Appliance Kit for Windows

**IBM,** Research Triangle Park, NC *Summer 2001*
***Software Engineer Intern*** – System tested z/OS Communications Server (TCP/IP Networking)

**nanoCom Corporation,** Blacksburg, VA *Summer 2000*
***Developer*** – Wrote multipoint video conferencing software

**NASA Langley SHARP Program,** Hampton, VA *Summer 1999*
***Developer*** – Created interactive educational websites using Perl CGI scripts that connect to a MySQL database

Education:

**Virginia Tech,** Blacksburg, VA *Spring 2003*
B.S. Computer Engineering with Computer Science Minor; Bradley Scholar - Full scholarship senior year
Overall GPA: 3.85; In Major GPA: 3.96; In Minor GPA: 4.00; summa cum laude

Programming Languages & Platforms: C/C++, Go, Node.js, Python, Bash, Ansible, Terraform, Angular, Swift, Java, Groovy, PL/X, REXX, assembler, VB, PBasic, Perl, ASP, Pascal; Kubernetes, OpenShift, Docker, Helm, MongoDB, Istio, Informix, DB2, MySQL, Git, Jenkins, Travis, ZenHub, Trello, Agile, Mural, Salesforce, AWS, GCP, Azure (AZ-900 certified), IBM Cloud