1. **Summary of Experience**

- Software Development

  - Served in Developer, Director of Engineering, and CTO roles for years.

  - Hired dozens of people and managed as many as 200+ developers as director.

  - Developed workflow to support both online and in-office developers.

  - Created team building exercises and activities that included remote developers.

  - Developed software to analyze developer productivity using Git commits.

  - Oversaw multi-million/year budgets for both compute resources and developers.

  - Managed my own corporations for more than 15 years.

  - 25+ years experience working in software development using many languages and technologies.

  - Special interest in functional and distributed programming (15+ years).

  - Staying sharp and current by continual learning new technologies and techniques.

- Technical Operations

  - 25+ years experience with Linux/BSD

  - Pioneered integration of virtual machines into developer workflow starting in the late 90s.

  - 15 solid years experience on AWS. Managed 800-1000 nodes for 7 years.

  - Utilized cutting-edge automation to configure hundreds of ephemeral compute nodes in the cloud

  - Early adopter of Kuberenetes (2016) in production use.

  - Helped teams build their CI/CD infrastructure, DevOps and Ops workflow.

  - Developed large-scale metrics, logging and monitoring/alerting systems.

  - Worked on-call to support large compute clusters and 24/7 operations.

2. **Technical Accomplishments**

- Oversaw 200+ developers in Thailand maintaining FinTech software used by millions that handled 1B year in transactions in multiple countries

- Developed a GHCJS web application interface for doctors simulating and tracking cancer patient treatment progress.

- Wrote a GHC application to optimize prepaid credits for compute resources on AWS, saving a company 6-figures per year.

- Deployed PB-scale OpenStack Swift for Korean Telecom in South Korea.

- Lead development of a large-scale distributed application to manage email archiving, retention policies and search on the cloud.

- Lead a team developing a logistics application for General Motors to optimize sourcing of components.

- Developed an application to allow sub-second search of every person, phone number, and address in America.

- Developed algorithms to allow virtual gas pipeline trading on a physical pipeline flowing one direction.

- Developed software for outsourcing e-commerce for online retailers utilizing innovative web-embedded encryption and serialization.

- Developed software used on handhelds for estimating the volume of lumber that could be produced from stacked raw timber.

3. **Work History**

- 2020/02-2022/07 Scarf Systems, CTO (Co-Founder), Haskell

- 2019/04-2020/02 Sabbatical (Time with Family)

- 2018/07-Present Holomoku, LLC, Owner/Principle

    - 2012/06-2017/02 PlowTech, Contractor, OCaml Developer

- 2017/10-2018/06 Ascend, Director of Engineering, 200+ developers, Java

- 2007/05-2017/09 Positive Inertia, LLC, Managing Member (Owner)

    - 2015/03-2017/09 FP Complete, Contractor, Haskell
        * 2017/01-2017/10 Miscellaneous Clients, Haskell and DevOps
        * 2015/03-2016/12 Amgen Pharmaceuticals, Haskell and DevOps
    - 2012/06-2017/02 Knewton, Contractor, Haskell/Clojure and DevOps
    - 2013/08-2013/11 Opscale, Contractor, DevOps
    - 2012/01-2012/04 Opscode, Contractor, Erlang
    - 2011/04-2012/01 Cloudscaling, Contractor, OpenStack, Ruby/Python
    - 2007/05-2011/03 Sonian, VP of Engineering, Clojure/Erlang/Ruby

- 2006/06-2007/05 Chip-In, Director of Engineering, Java/Ruby

- 2005/03-2006/03 SupplyChainge, Sr Developer, Java

- 2004/08-2005/03 Compuware, Sr Developer, Java

- 1999/08-2004/08 CSG Professional Services, Staff Contractor, Java

    - 2004/03-2004/08 Liberty Mutual Insurance, Architect/Lead Developer, Java
    - 2003/05-2004/01 All About Travel, Lead Developer, Java
    - 2003/03-2003/05 North Pacific Group, Architect/Lead Developer, Java
    - 2002/07-2003/01 Pacific Crest Technologies, Architect/Lead Developer, Java
    - 2001/09-2002/05 Nike, Lead Developer, Java
    - 2000/12-2001/06 Qsent, Lead Developer, Java
    - 2000/08-2001/01 Pacific Gas and Electric, Developer, Java
    - 2000/05-2000/07 Columbia Management, Lead Developer, Java
    - 1999/08-2000/04 Western Reliance, Lead Developer, Java

- 1998/07-1999/03 EC-Direct, Developer, Java

- 1997/08-1998/05 Hood River Juicers, Developer, Java

- 1996/12-1997/06 Total Health Therapies, Developer, Java

- 1990/09-1991/05 Northwest Log Scalers Co-op, Developer, C

- 1989/06-1990/08 Humanities Software, Developer, Pascal