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Professional Summary Accomplished Bioinformatics Scientist with over 12 years of experience in genomic data analysis and software development. Specialized in creating high-performance computational tools for analyzing and interpreting large-scale biological datasets. Proven track record of leading cross-functional teams and delivering innovative solutions to complex research problems.

Education Ph.D. in Bioinformatics University of California, San Diego (UCSD), La Jolla, CA
2005-2009 Dissertation: "Development of Novel Algorithms for Single-Cell RNA-Seq Data Analysis"

B.S. in Computer Science University of Washington, Seattle, WA 2001-2005 Summa Cum Laude

Professional Experience Senior Bioinformatics Scientist Illumina | San Diego, CA March 2016 - Present

- Lead a team of 12 bioinformaticians in developing cutting-edge software tools for analyzing genomic data generated by Illumina sequencers
- Collaborate with product development teams to integrate bioinformatics solutions into commercial software packages
- Design and implement scalable algorithms for processing terabytes of sequencing data
- Provide bioinformatics expertise to support key client projects and partnerships
- Author 5 peer-reviewed publications and 3 patent applications

Bioinformatics Scientist II Genentech | South San Francisco, CA September 2009 - February 2016

- Developed and maintained bioinformatics pipelines for analyzing high-throughput sequencing data from various platforms
- Conducted statistical analysis and data mining to identify novel biomarkers and therapeutic targets
- Collaborated with scientists and clinicians to design and execute translational research projects
- Mentored junior bioinformaticians and interns
- Contributed to 8 scientific publications and 2 FDA-approved companion diagnostic assays

Technical Skills

- Programming Languages: Python, R, C++, Java
- Bioinformatics Tools: GATK, BWA, SAMtools, Picard, STAR
- NGS Data Analysis: Whole Genome, Exome, RNA-Seq, ChIP-Seq
- Cloud Computing Platforms: AWS, Google Cloud, Microsoft Azure
- Database Systems: MySQL, PostgreSQL, MongoDB
- Statistical Analysis & Machine Learning
- Data Visualization & Dashboarding
- Agile Software Development & DevOps

Publications & Patents

- 20+ peer-reviewed publications in journals such as Nature Biotechnology, Genome Research, and Bioinformatics
- 5 issued U.S. patents related to bioinformatics algorithms and software tools
- Invited speaker at major bioinformatics conferences (ISMB, PAG, RECOMB)

Professional Memberships

- International Society for Computational Biology (ISCB)
- American Association for Cancer Research (AACR)
- Institute of Electrical and Electronics Engineers (IEEE)

Awards & Honors

- Illumina Innovation Award (2020)
- Genentech Outstanding Bioinformatics Scientist (2015)
- NIH Pathway to Independence Award (K99/R00) (2011-2016)
- NSF Graduate Research Fellowship (2005-2008)